

MATERIAL SAFETY DATA SHEET
COTRONICS PROPRIETARY
BRAZING BINDER 4B

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: Braze Binder
Formula: N/A
Chemical Family: Acrylic Polymers
Comments: N/A

SECTION 2: COMPOSITION INFORMATION

Non-Hazardous:	CAS#	%
Acrylic Polymers	N/R	20 - 50%
Toluene	108-88-3	30 - 50%
Xylene	133-02-7	20 - 40%

Oral and Dermal LD > 5.2g/ kg and 3.95g/kg (Rat)
Inhalation LC > 6350ppm for 4 Hour (Rat)

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: Milky Liquid
Odor: Toluene
Melting Or Freezing Point: 32°F
Boiling Point: 212°F
Vapor Pressure: Water
Vapor Density (Air=1) : 3.2
Solubility In Water: Slight
% Volatile (By Weight) : 70 - 80%
Solubility In Organic Solvent: Yes
Evaporation Rate (Butyl Acetate=1.9) : < 1
Specific Gravity (Water=1) : .09 - 1.2

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: 40°F.
Lower Explosion Limit (%) : N/A.
Upper Explosion Limit (%) : N/A.
Extinguishing Media: All Standard Firefighting Media.
Special Firefighting Procedures: Flammable. Wear Respiratory Protection If In A Confined Area.

DATE PREPARED: 9/17/93 **DATE REVISED:** 08/05/05

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Low degree of toxicity by Inhalation.
Eye Contact: Causes Mild eye irritation.
Skin Contact: Wash with mild soap.
Ingestion: Low degree of toxicity by Ingestion.
Medical Conditions Aggravated: Not Known.
Chronic Effects Of Over Exposure: Not Known.

Emergency And First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Keep at rest and get medical attention.
Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get Medical attention if irritation persists.
Inhalation: If inhaled remove to fresh air,
Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention if irritation persists.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: Acrylic Monomers.
Incompatibility (Materials to Avoid) : None Known.
Conditions To Avoid: Keep away from heat and cold open flames.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Wash clothing before reuse.
Waste Disposal Methods: Landfill or incinerate material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition and open flames). Do not store near food or feed.

DOT Hazard Class Flammable Liquid UN 1294 and UN 1993

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HIMS RATING Health = 2 Fire = 3 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics Corporation Replicast 101MR

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms	CAS #	%	OSHA PEL	ACGIH TLV
1,1,1,2-T Dimethyl Ether	811-97-2	40-60	1000ppm	NE*
Aliphatic Hydrocarbon	115106	40-60	1000 ppm	NE*
	8052-41-3	4-10	400ppm	500ppm

*NE Non Established

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

PHYSICAL DATA

	As Supplied
Boiling Point (°F):	N/A
Vapor Density (Air=1):	2.6
Specific Gravity Range (H2O=1):	0.989
(%) Solubility in Water:	Partially soluble
Appearance/Odor:	Clear, colorless liquid with faint ethereal odor
Vapor Pressure (mm Hg.):	@70 °F = 69 psig

HEALTH HAZARD DATA

Routes of Entry Skin: Yes Inhalation: Yes Ingestion: Not likely

Potential acute health effects of overexposure

Eye:	Eye contact with liquid or vapor may cause severe irritation, redness, tearing, blurred vision, and possible freeze burns.
Skin:	Skin contact with the liquid may cause freezing of the skin (frostbite) or irritation.
Ingestion:	Ingestion not a likely route of entry
Inhalation:	Overexposure by inhalation of concentrated vapors may cause respiratory irritation, nausea, headache, and dizziness. Inhalation of may produce anesthetic effects and feeling of euphoria. Prolonged overexposure can cause rapid breathing, headache, dizziness, narcosis, unconsciousness and death from asphyxiation, depending on concentration and time exposure.

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

Emergency and First Aid Procedures

Eyes:	Immediately rinse eyes with running water for 15 minutes. If irritation develops, get medical attention. Consult physician immediately if frostbite occurs.
Skin:	Wash affected area with soap and water. Remove and launder contaminated clothing before reuse. Treat as frostbite. If irritation develops or if there is evidence of tissue damage, get medical attention.
Inhalation:	Remove to fresh air. If breathing has stopped, restore breathing at once. Administer oxygen and get immediate medical help.
Ingestion:	Ingestion is an unlikely route of exposure. Do not induce vomiting unless instructed to do so by a physician. Seek immediate medical attention.

SECTION 7: SPILL OR LEAK PROCEDURES

Waste Disposal Method: Dispose of in accordance with local, federal and state regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): NIOSH approved* Respirators recommended for spray applications.
Ventilation: Local Exhaust: As needed to keep vapor concentrations below TLV's.
Protective Gloves: Impervious gloves with MYLAR-coated Durafab (2nd Choice PVA or neoprene) for repeated exposure.
Eye Protection: Proper eye protection should be worn in any type of industrial operation.

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing: Do not puncture, incinerate, expose to open flame or temperature above 120°F. Keep out of direct sunlight.
Other Precautions: Read label precautions. For industrial use only. Keep out of reach of children. Contents are under pressure.

* (Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET
COTRONICS CORPORATION
Replicast 101 Part A

SECTION 1 CHEMICAL PRODUCT / COMPANY INFORMATION

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

Product Name: Replicast 101 Part A
Formula: N/A
Comments: N/A
Chemical Family: Polyurethane Elastomer

SECTION 2: COMPOSITION INFORMATION

Component	CAS #	Wt. %	TWA	OSHA PEL
Butyl benzyl phthalate	85-68-7	65-70 %	N/A	N/A
Polymethylene polyphenyl isocyanate	9016-879	10-15	N/A	N/A
4,4' Methylene bis(phenylisocyanate)	101-68-8	20-25	0.005 ppm	0.02 ppm

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive

SECTION 3: PHYSICAL DATA

Boiling Point (°F) : None Determined
Freezing/Melting Point:: None Determined
Specific Gravity Range (H₂O=1): 1.10
Vapor Pressure (mm Hg.) : < 0.00001 @ 25° C
Vapor Density (Air=1) : 8.6
Viscosity: 1 poise
Solubility in Water: Negligible
Evaporation Rate (=1) : N/A
Appearance/Odor: Brown Liquid, Characteristic odor
% Volatile: N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) : 390° F (200° C)
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: Hazardous decomposition products may be formed. Avoid water contamination in closed containers or confined areas as exothermic heat and carbon dioxide can evolve.
Extinguishing Media: Water Fog, Dry Chemical, Carbon Dioxide Foam
Lower explosion limit: Not established **Upper Explosion Limit:** Not established
Sara Section 313 Supplier Notification:

This product contains the following chemical (s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1968 and of 40 CFR 372: Refer to the Hazardous Ingredients section of this MSDS for the appropriate CAS numbers.

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HIMS RATING Health = 2 Fire = 0 Reactivity = 1

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 5: HEALTH HAZARD DATA

Primary Entry Routes: Inhalation and Dermal

Target Organs: Lung, skin

Acute Effects of Inhalation: Vapors are minimal due to low vapor pressure. Excessive exposure can cause irritation to respiratory tract and irritation of the eyes. Effects may be delayed. Decreased ventilatory capacity has been associated with exposure to similar isocyanates.

Eye: May cause irritation, redness tearing blurred vision. Prolonged vapor contact may cause conjunctivitis.

Skin: Contact will cause irritation, reddening, swelling, rash, scaling or blistering. Prolonged or repeated contact can cause moderate dermatitis.

Ingestion: May have corrosive effects on the linings of lining of the mouth and stomach: symptoms may cause sore throat, abdominal pain, nausea, vomiting, and diarrhea
Carcinogenicity: IARC, NTP and OSHA do not list any of these components as a carcinogen.

Medical Conditions Aggravated by Long Term Exposure: Skin allergies and respiratory disorders.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Incompatibility (Materials To Avoid): Avoid contamination with water and other materials that react with isocyanates.

Hazardous Decomposition Products: MDI vapors, Hydrogen cyanide gas, oxides of nitrogen, carbon monoxide and carbon dioxide.

Hazardous Polymerization: Can occur

SECTION 7: SPILL OR LEAK PROCEDURES

Spill or Leak Procedures: Only properly protected personnel should remain in spill area: dike and contain spill, absorb or scrape up excess into suitable container for disposal, wash are with dilute ammonia solution. Stop or reduce discharge if it can be done safely.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120)

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved*. Respirators recommended for spray applications. Air purifying respirators do not protect workers in oxygen - deficient atmospheres.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Clothing: chemically protected gloves, boots, aprons, lab coats to prevent prolonged or repeated contact. Wear safety glasses or chemical safety goggles.

Eye Protection: Recommended.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc. Use With Adequate Ventilation. Avoid Repeated Skin Contact. Wash Skin Thoroughly After Handling.

DATE PREPARED: 01/01/89

DATE REVISED: 02/23/06

COTRONICS CORPORATION
3379 Shore Parkway Bklyn, N. Y. 11235
718-646-7996 FAX 718-646-3028

To Whom It May Concern:

Please be advised that there is no formal Material Safety Data Sheet available on our product #102 MR as this is an edible food quality grease.

Thank You,
Cotronics Corporation

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

Mold Release 103 MR

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms: See Below
Formula: Mixture of Specialty Solvents
Chemical Family: Specialty Solvent
Comments: N/A
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Threshold value 400ppm TWA (ACGIH)
Hazardous Materials: None Listed
Nature of Hazard: N/A

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance/Odor: Colorless thin liquid, Sharp alcoholic odor
Melting Or Freezing Point: NA
Boiling Point: 180 °F
Vapor Pressure: 37 mm/hg at 68°F
Vapor Density (Air=1) : 2.0 (Air = 1)
Solubility In Water: Complete
% Volatile (By Volume) : > 85%
Evaporation Rate (Ether=1) : < 2
Specific Gravity (Water=1) : 0.80 at 68°F

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: 53°F
Method Used: TCC, flammable liquid
Lower Explosion Limit (%) : 2%
Upper Explosion Limit (%) : 12%
Extinguishing Media: CO2 Foam or Dry Chemical
Dot Classification: Combustible(UN1219,Class 3 PGII)
Special Firefighting Procedures: Flammable/Wear Respiratory Protection if in a Confined Area.

Unusual Fire and Explosion Hazard flammable liquid, vapors may be ignited by heat, sparks, flames or static electricity. Container may rupture if exposed to extreme heat.

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SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure:

Excessive Inhalation: if high concentrations can cause nose and throat irritation, dizziness, weakness, fatigue headache.toxicity by inhalation

Eye Contact: Causes mild eye irritation.

Skin Contact: Prolonged contact causes irritation sensibility.

Ingestion: Irritation of the gastrointestinal tract and possible kidney effects, vomiting

Medical Conditions Aggravated: Not Known.

Chronic Effects of Over Exposure: Not Known.

Carcinogenicity: No ingredients identified as a carcinogen or potential carcinogen by NTP, IARC, or OSHA.

Emergency and First Aid Procedures:

Ingestion: Induce vomiting. Drink milk or water and get medical attention.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get Medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen and get medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention if irritation persists.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Combustion liberates CO, CO2

Conditions To Avoid: Keep away from heat, sparks, sunlight and open flame.

Incompatibility (Materials To Avoid) : Strong oxidizing agents.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill with inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse.

Waste Disposal Methods: Landfill or incinerate material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep containers closed, Store in cool, dry well ventilated area for laboratory or office use. Avoid heat and direct sunlight. Store away from excessive heat (e.g., Steam-pipes, radiators, from sources of ignition). Do not store near food or feed. Do not mix with other cleaning agents.

DATE PREPARED: 6/11/92

DATE REVISED: 02/23/06

HIMS RATING Heath = 0 Fire =2 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

RESBOND Solvent

105RS

FDA Approved Solvent

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms	CAS #	%	OSHA PEL
Aliphatic Hydrocarbon	64742-48-9	85-95%	300ppm
Propane	74-98-6	5-15	1000ppm

* N/E=Non Established

All materials contained within are listed on the TSCA Inventory list

This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL DATA

Boiling Point (°F) :	<i>As Supplied</i> 160-175°F
Vapor Density (Air=1) :	>1
Specific Gravity Range (H2O=1) :	0.78
(%) Solubility in Water:	Insoluble
Appearance/Odor:	Clear, colorless liquid with faint Hydrocarbon odor
Vapor Pressure (mm Hg.) :	38 psig

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flammable Limit:	LEL 4.0%	UEL 25.0%
Do Not Spray Near Open Flame		
Flash Point:	>100°F.	
Auto Ignition Temp:	N/A	
Lower Explosion Limit (%) :	N/A	
Upper Explosion Limit (%) :	N/A	
Extinguishing Media:	Foam, CO ₂ , Dry Chemical, Water Spray	
Fire Fighting Instructions:	Keep people away. Isolate fire area and deny unnecessary entry. Stay upwind. Keep out of low areas where gasses (fumes can accumulate. Contain firewater run-off if possible.	

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat. Dizziness, Nausea, and headache.

Eye contact : Irritating to eyes.

Skin Contact : Temporary irritation, defatting of skin.

Ingestion : Unlikely problem since product is a aerosol.

Delayed Effects : Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye and Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

SECTION 6: REACTIVITY INFORMATION

Stability:	Stable
Hazardous Polymerization:	Will not occur
Incompatibility (Materials to Avoid)	None
Conditions to Avoid:	Avoid direct sunlight or ultraviolet sources. Avoid open flames, welding arcs, or other high temp. Sources which induce thermal decomposition.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps to be taken in case material is spilled or released: Evacuate areas until vapor has dispersed. Remove all sources of ignition. Stop or reduce discharge if it can be done safely.

Waste Disposal Methods: EMPTY FULLY including release of pressure. Do not puncture or incinerate. Dispose material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH- approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store in a cool, dry, well ventilated area away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store above temperatures of 120 °F. Keep out of reach of children.

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DATE PREPARED: 1/01/02 **DATE REVISED:** 02/23/06

HIMS RATING Health = 1 Fire =3 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

RESBOND 105 RF

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1

Chemical Name And Synonyms: Butyl Benzyl Phthalate
Formula: N/A
Chemical Family: Oxygenated Hydrocarbon
Comments: N/A

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials:

Butyl Benzyl Phthalate CAS# 85-68-7 Approx. %: 100
ACGIH TLV: N/A OSHA PEL: N/A

B. Nonhazardous

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance/Odor: Clear Liquid/Aromatic
Melting Or Freezing Point: N/A
Boiling Point: 698 °F
Vapor Pressure: Negligible
Vapor Density (Air=1) : 10.8
Solubility In Water: (20 °F) Insoluble
% Volatile (By Volume) : 0
Solubility In Organic Solvent: Yes
Evaporation Rate (Butyl Acetate=1) : < 0.01
Specific Gravity (Water=1) : 1.1
Density: 9.3 #/Gal

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 390°F
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: All Standard Firefighting Media
Special Firefighting Procedures: Flammable. Wear Respiratory Protection If in a Confined Area.

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SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Low Degree Of Toxicity By Inhalation.

Eye Contact: Causes Mild Eye Irritation.

Skin Contact: Wash With Mild Soap.

Ingestion: Low Degree Of Toxicity By Ingestion.

Medical Conditions Aggravated: Not Known.

Chronic Effects of Over Exposure: Not Known.

Carcinogenicity: No ingredients identified as a carcinogen or potential carcinogen by NTP, IARC, or OSHA.

Emergency And First Aid Procedures:

Ingestion: If swallowed and symptoms develop, get medical attention.

Skin: Remove contaminated clothing and laundry before reuse. Wash with soap and water. Get Medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen and get medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention if irritation persists.

SECTION 6: REACTIVITY INFORMATION

Stability:

Stable

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

Carbon monoxide. Carbon dioxide.

Incompatibility (Materials To Avoid):

None known.

Conditions To Avoid:

Keep away from heat, sparks and open flame.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition)
Do not store near food or feed.

DATE PREPARED: 5/11/92

DATE REVISED: 02/23/06

HIMS RATING Heath = 1 Fire =1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

SAFETY SOLVENTS 105 RP and 105 RS BULK

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: See Below
Formula: Mixture of Specialty Solvents
Chemical Family: Specialty Solvent
Comments: N/A
All materials contained within are listed on the TSCA Inventory list
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Hazardous Materials: None Listed
Nature Of Hazard: N/A

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance/Odor: Pail Yellow Mobil Liquid/Orange
Melting Or Freezing Point: N/A
Boiling Point: 176 °C
Vapor Pressure: 1.2 mm/hg At 20°C
Vapor Density (Air=1) : 4.7
Solubility In Water: Insoluble
% Volatile (By Volume) : > 80%
Solubility In Organic Solvent: Yes
Evaporation Rate (Ether=1) : <1
Specific Gravity (Water=1) : 0.84 At 25°C

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: 115°F
Method Used: TCC
Lower Explosion Limit (%) : 1%
Extinguishing Media: CO2 Foam Or Dry Chemical
Dot Classification: Combustible
Special Firefighting Procedures: Flammable/Wear Respiratory Protection If In A Confined Area.

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SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Low Degree Of Toxicity By Inhalation.
Eye Contact: Causes Mild Eye Irritation.
Skin Contact: Prolonged Contact Causes Irritation Sensibility.
Ingestion: Irritation Of The Gastrointestinal Tract And Possible Kidney Effects. Low Degree Of Toxicity By Ingestion.
Medical Conditions Aggravated: Not Known.
Chronic Effects Of Over Exposure: Not Known.
Carcinogenicity: No ingredients identified as a carcinogen or potential carcinogen by NTP, IARC, or OSHA.
Emergency And First Aid Procedures:
Ingestion: Do not induce vomiting. Drink milk or water and get medical attention.
Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get Medical attention if irritation persists.
Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen and get medical attention.
Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention if irritation persists.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: Combustion liberates CO, CO2
Conditions To Avoid: Keep away from heat, sparks, sunlight and open flame.
Incompatibility (Materials To Avoid) : Strong oxidizing agents and acids. Keep in a closed container.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse.
Waste Disposal Methods: Landfill or incinerate material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., Steam-pipes, radiators, from sources of ignition). Do not store near food or feed. Do not mix with other cleaning agents.

DATE PREPARED: 6/11/92

DATE REVISED: 02/23/06

HIMS RATING Heath = 0 Fire =2 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESIN

RESBOND 105 RT

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name: N/A

Chemical Family: Proprietary Modified Ether

Chemical Formula: N/A

All materials contained within are listed on the TSCA Inventory list

This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Appearance/Odor: Amber Transparent Liquid

Melting Or Freezing Point: N/A

Boiling Point: > 300 °F

Vapor Pressure (mm Hg) : N/A

Vapor Density (Air=1) : >1

Solubility In Water: Negligible

% Volatile (By Weight) : Negligible

Specific Gravity (Water=1) : 1.1

Evaporation Rate (Butyl Acetate=1) : Negligible

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 200°F

Auto Ignition Temp: N/A

Lower Explosion Limit (%) : N/A

Upper Explosion Limit (%) : N/A

Extinguishing Media: Foam, CO₂, Dry

Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.

Ingestion: Possibly harmful if swallowed. LD > 4.5 g/Kg.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

Disclaimer: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, sources of ignition, and from reactive materials). Do not store near food or feed. Corrosive to copper and brass on long storage.

Corrosive Material: Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

DATE PREPARED: 11/01/85 **DATE REVISED:** 02/23/06

HIMS RATING Health = 1 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

111 HEAT BLOCK COMPOUND FSP 211 FIRE STOP COMPOUND

Manufacturers Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms: N/A Mixture
Chemical Family: Alumina silicate, Alumina, or Silicate
Chemical Formula: N/A
Comments: See Section 9
All materials contained within are listed on the TSCA Inventory list
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	TVL/PEL
Refractory Ceramic Fiber	100	2 f / cc

B. After Normal Use See Section 8

SECTION 3: PHYSICAL DATA

Boiling Point (°F) :	N/A
Vapor Density (Air=1) :	N/A
Specific Gravity Range (H ₂ O=1) :	N/A
Percent Volatile By Volume:	N/A
(%) Solubility in Water:	Insoluble
Evaporation Rate (H ₂ O=1) :	N/A
Appearance/Odor:	No Odor. Red or Blue Putty
Vapor Pressure (mm Hg.) :	0.2 -1.2

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	N/A
Flash Point (Method Used) :	N/A
Flammable Limit:	N/A
Unusual Fire And Explosive Hazards:	LEL = N/A
Special Fire Fighting Procedures:	UEL = N/A

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion and Skin Irritation.
Effects Of Overexposure: Currently, there are no known chronic health effects in humans from long term exposure to refractory ceramic fibers. Animal studies to date are inconclusive. However, based on limited testing, refractory ceramic fibers are a suspected carcinogen in laboratory animals. The Thermal Insulation Manufacturers Association (TIMA) is sponsoring animal inhalation studies as well as epidemiological studies of workers in the industry. Until definite answers become available, strict adherence to recommended safe work practices described elsewhere in this MSDS is advised. This product contains minor amounts of binders which burn out during first heat up. Emergency and First Aid Procedures Terminate Exposure.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: N/A
Waste Disposal Method: Routine Housekeeping

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Dust respirator in compliance with OSHA Standard currently 29 CFR 1910.134 (NIOSH Approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge (s)).
Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94
Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94
Protective Gloves: Recommended.
Eye Protection: Goggles/Safety Glasses Recommended.
Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream. Material does not appear on NTP and/or LAC lists of reports for Carcinogens.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken During First Exposure To Heat: Trace temporary organic binders will burn off during the first exposure to heat. (500-1000°F). Carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and a small amount of formaldehyde may accompany binder burn-off. Use adequate ventilation or other precautions to eliminate vapors resulting from binder burn-off. Exposure to burn-off fumes may cause respiratory tract irritation.

Precautions To Be Taken After Use And Upon Removal: This product as manufactured is an alumina silicate which could transform upon heating to mullet and crystalalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula:
10 mg/cu m
½(-----)#
% Respirable quartz + 2

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DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

HIMS RATING Heath = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESIN

BORON NITRIDE 112 Brush On

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name: N/A
Chemical Family: Proprietary Boron Nitride
Chemical Formula: N/A

All materials contained within are listed on the TSCA Inventory list
This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Appearance Odor: White Paint
Melting/Freezing Point: No data
Boiling Point: >100°C
Vapor Pressure (mm Hg) : Same as Water
Vapor Density (Air=1) : >1
Solubility In Water: Soluble
% Volatile (By Weight): 80%
Specific Gravity (Water=1) : 1.1
Evaporation Rate (Butyl Acetate = 1) : Same as Water

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray.

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye contact : Substantially irritating to eyes.

Skin Contact : Substance is moderately irritating after prolonged contact . Not absorbed in toxic amounts

Ingestion : Possibly harmful if swallowed.

Delayed Effects : Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area.

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH- approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials. Do not store near food or feed.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

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DATE PREPARED: 1/01/93

DATE REVISED: 02/23/06

HIMS RATING Heath = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESIN

BORON NITRIDE SPRAY 112

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name: N/A
Chemical Family: Proprietary Boron Nitride
Chemical Formula: N/A

All materials contained within are listed on the TSCA Inventory list
This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Appearance Odor: White Spray
Melting/Freezing Point: No data
Boiling Point: > 0°C
Vapor Pressure (mm Hg) : No data
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight): 80%
Specific Gravity (Water=1) : 1.1
Evaporation Rate (Butyl Acetate = 1) : Same as Ether

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Do Not Spray Near Open Flame

Flash Point: >100°F.
Auto Ignition Temp: No data.
Lower Explosion Limit (%) : No data.
Upper Explosion Limit (%) : No data.
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray.

SECTION 4: HEALTH HAZARD DATA

Propellant Contains Isobutane 106-97-8 Acetone 67-64-1 Propellant 74-98-6 Alcohol 64-17-5

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye contact : Substantially irritating to eyes.

Skin Contact : Substance is moderately irritating after prolonged contact . Not absorbed in toxic amounts

Ingestion : Possibly harmful if swallowed. LD > 4.5 g/ Kg.

Delayed Effects : Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area.

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH- approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials. Do not store near food or feed.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician:

Propellant Contains Methyene Chloride 40-50% Cas 00075-09-2 and Isobutane 30-40% Cas 00075-28-5.

Shipping: DOT Classification ORM-D

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DATE PREPARED: 1/01/93

DATE REVISED: 04/23/06

HIMS RATING Heath = 1 Fire =3 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY RESINS

DURALCO 118 DURALCO 120
DURALCO 122 DURALCO 124 DURALCO 126

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin
All materials contained within are listed on the TSCA Inventory list
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin

Nature of Hazard: Irritant

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: No Data
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.16
Vapor Pressure (mm Hg) : No Data
Melting Or Freezing Point: No Data
Evaporation Rate (Butyl Acetate=1) : < 1
Appearance/Odor: Greyish/Silver and Low Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.

Corrosive Material: Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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Created 11/01/85

Revised 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY

DURALCO 120

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Chemical Family:	CAS #	%
Part A Resin:		
Silver	7440-22-4	70% - 90%
Proprietary Modified Epoxy Resin		Balance
Part B Hardener:		
Proprietary Organic Amine		

Note Other non-hazardous components will not be listed separately

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: No Data
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 3.2 - 3.9 gms/cc
Vapor Pressure (mm Hg) : No Data
Melting Or Freezing Point: No Data
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Grey-Silver viscous liquid/ mild odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 295°F
Auto Ignition Temp: No Data
Lower Explosion Limit (%) : No Data
Upper Explosion Limit (%) : No Data
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye and Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur
Materials to Avoid: Strong Oxidizing and Reducing agents

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.
Note: This product contains the following toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right to Know Act. Of 1985 (40 CFR 372)
Disclaimer: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

Date Prepared 1/15/95

Date Revised 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY

DURALCO 125

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Chemical Family:	CAS #	%
Part A Resin:		
Silver	7440-22-4	60% - 80%
Proprietary Modified Epoxy Resin		Balance
Part B Hardener:		
Silver Flake	7440-22-4	60% - 80%
Proprietary Organic Amine		Balance

Note Other non-hazardous components will not be listed separately

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: No Data
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 2.5 - 3.5 gms/cc
Vapor Pressure (mm Hg) : No Data
Melting Or Freezing Point: No Data
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Grey-Silver viscous liquid/ mild odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 295°F
Auto Ignition Temp: No Data
Lower Explosion Limit (%) : No Data
Upper Explosion Limit (%) : No Data
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye and Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur
Materials to Avoid: Strong Oxidizing and Reducing agents

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.
Note: This product contains the following toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right to Know Act. Of 1985 (40 CFR 372)
Disclaimer: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

Date Prepared 1/15/95

Date Revised 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0 HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESINS

DURALCO 127 Two Component

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Chemical Family:	CAS #	%
Part A Resin:		
Epoxy Resin (proprietary novolac)	*	
Graphite	7782-42-5	<60

All materials are contained within the are listed on the TSCA inventory list.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: No Data
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.4-1.5
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: N/A
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Grey Viscous liquid

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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Date Created 02/20/00

Date Revised 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESINS

DURALCO 127-1A ONE COMPONENT

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin
All materials contained within are listed on the TSCA Inventory list.

SECTION 2: COMPOSITION INFORMATION

Chemical Family:	CAS #	%
Epoxy Resin (proprietary novolac)	*	
Graphite	7782-42-5	<60
Hardener	Dicyandiamide Complex	

All materials are contained within the are listed on the TSCA inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: No Data
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.4-1.5
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: N/A
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Grey Viscous liquid

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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Date Created 02/07/85

Date Revised 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

Duralco 127 Two Component

Type One: Room Temperature Curing Systems are Amine Complex.

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture*

Formula: N/A

Chemical Family: Amine Complex

SECTION 2: COMPOSITION INFORMATION

Chemical Family: CAS# %

Part B Hardener:

Graphite 7782-42-5 <50

All materials are contained within the are listed on the TSCA inventory list.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A

Vapor Density (Air=1) : >1

Solubility In Water: Negligible

% Volatile (By Weight) : Negligible

Melting Or Freezing Point: N/A

Vapor Pressure (mm Hg) : N/A

Specific Gravity (Water=1) : 1.25 - 1.30

Evaporation Rate (Butyl Acetate=1) : <1

Appearance/Odor: Greyish liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F

Auto Ignition Temp: N/A

Lower Explosion Limit (%) : N/A

Upper Explosion Limit (%) : N/A

Extinguishing Media: Foam, CO₂, Dry

Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY HARDENERS

DURALCO 118 DURALCO 120
DURALCO 122 DURALCO 124 DURALCO 126

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: 122 - Acid Anhydride Complex
118, 120, 124 - Amine Complex
126 - Dicyandiamide Complex

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Transparent amber liquid/Amine odor

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

Replicast 101 Part B

SECTION 1 CHEMICAL PRODUCT / COMPANY INFORMATION

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

Product Name: Replicast 101 Part B
Formula: N/A
Comments: N/A
Chemical Family: Polyurethane Elastomer

SECTION 2: COMPOSITION INFORMATION

Component	CAS #	Wt. %	ACGIH TWA	OSHA PEL
Butyl benzyl phthalate	85-68-7	30-35	N/A	N/A
N. Gentlemen. Trade Secret #221290880-5003P	30-35		N/A	N/A
Kaolin	1332-58-7	15-20 15	mg/m ³ as dust	15 mg/m ³ as dust
Silica, Quartz	14808-60-7	15-20 50	mg/m ³ as dust	50 mg/m ³ as dust
Titanium Dioxide	13463-67-7	1-3 15	mg/m ³ as dust	15 mg/m ³ as dust
Phenylmercuric neodecanoate	26545-49-3	0.1 0.1	mg/m ³ as dust	0.1 mg/m ³ as dust

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F): None (polymeric Resin)
Freezing/Melting Point:: None Determined
Specific Gravity Range (H₂O=1): 1.40
Vapor Pressure (mm Hg.): None (polymeric resin)
Vapor Density (Air=1): > 1
Viscosity: 90 poise
Solubility in Water: Negligible
Evaporation Rate (=1): None (polymeric resin)
Appearance/Odor: White viscous liquid, characteristic odor
% Volatile: Nil

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 300° F (150° C) (COC)
Flammability Classification: Non-Flammable
Unusual Fire and Explosive Hazards: None
Extinguishing Media: Water Fog, Dry Chemical, Carbon Dioxide Foam
Fire Fighting Instructions: Fire fighters should wear self contained breathing apparatus, Do not release runoff from fire control methods to sewers or waterways.
Fire Fighting Equipment: Fire may produce toxic thermal decomposition products, wear self contained breathing apparatus (SCBA) with a face piece operated in pressure-demand or positive-pressure mode.

Sara Section 313 Supplier Notification:

This product contains the following chemical (s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1968 and of 40 CFR 372: Refer to the Hazardous Ingredients section of this MSDS for the appropriate CAS numbers.

DATE PREPARED: 01/01/89 **DATE REVISED:** 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 1

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 5: HEALTH HAZARD DATA

Primary Entry Routes: Dermal.

Target Organs: pancreas, liver, thyroid and eyes.

Acute Effects of

Inhalation: Vapors, which are not significant unless heated or sprayed can cause irritation to respiratory tract. .

Eye: May cause irritation, redness, tearing. .

Skin: Contact will cause irritation, reddening, swelling, moderate dermatitis.

Ingestion: May have corrosive effects on the linings of lining of the mouth and stomach: symptoms may cause sore throat, abdominal pain, nausea, vomiting, and diarrhea
Carcinogenicity: IARC, NTP and OSHA do not list any of these components as a carcinogen.

Medical Conditions Aggravated by Long Term Exposure: Pre-existing skin disorders.
Chronic Effects of Over Exposure: This product contains an organo-mercury catalyst below the reportable level required by OSHA 1910.1200; however, due to the chronic toxicity of organo-mercury compounds careful handling of this product is required.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization can not occur

Conditions To Avoid: Avoid contamination with water and other materials that react with amines.

Chemical Incompatibilities: Strong acids and oxidizers.

Thermal Decomposition Products: Oxides of nitrogen, carbon monoxide and carbon monoxide.

SECTION 7: SPILL OR LEAK PROCEDURES

Spill or Leak Procedures: Dike and contain spill; absorb or scrape up excess into suitable container for disposal. Stop or reduce discharge if it can be done safely.

Regulatory Requirements: Follow applicable OSHA regulations(29 CFR 1910.120).
Disposal: This material contains a hazardous constituent as identified in RCRA, Title 40 CFR 261, Appendix VIII and must be disposed of in accordance with applicable federal state and local regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): NIOSH approved*. Respirators recommended for spray applications. Air purifying respirators do not protect workers in oxygen - deficient atmospheres.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Clothing: chemically protected gloves, boots, aprons, lab coats to prevent prolonged or repeated contact. Wear safety glasses or chemical safety goggles.

Eye Protection: Recommended.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storing: Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper respiratory equipment. Use good general house keeping procedures.

Storage Requirements: Store in cool well ventilated area.

* (Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

PROPRIETARY MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESIN

DURALCO 128, 132, 133, 140

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Family:	CAS #	%
Part A Resin:		
Epoxy Resin	*	<50%
Aluminum Powder (132, 133, 140)	7429-900-5	<60%
Proprietary Ceramic Powder (128, 134)	*	<60%
Part B Hardener:		
Proprietary Organic Amine	100%	

*proprietary Novalac Epoxy Resin

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Appearance:	Odor:
Resin: Viscous silver liquid.	Sweet odor.
Hardener: Amber transparent liquid.	Ammonia odor.
Melting Or Freezing Point:	N/A
Boiling Point:	N/A
Vapor Pressure (mm Hg) :	N/A
Vapor Density (AIR=1) :	>1.
Solubility In Water:	Negligible.
% Volatile (By Weight):	Negligible.
Specific Gravity (Water 1):	Resin 1.5-1.8 Hardener 0.9-1.2 gr./cc
Evaporation Rate (Butyl Acetate=1) :	<1.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	>295°F.
Auto Ignition Temp.:	N/A
Lower Explosion Limit (%) :	N/A
Upper Explosion Limit (%) :	N/A
Extinguishing Media:	Foam, CO ₂ , Dry.
Chemical:	Water Spray.

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact . Not absorbed in toxic amounts

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed, dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable.

Hazardous Polymerization: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type : Normal room ventilation.

Respiratory Protection : None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves : Impervious.

Eye Protection : Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment : Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Storage: Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.

Corrosive Material : Avoid all eye and skin contact..

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician : Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

PROPRIETARY MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESIN

DURALCO 128, 132, 133, 134, 140

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Family:	CAS #	%
Part A Resin:		
Epoxy Resin	*	<50%
Aluminum Powder (132, 133, 140)	7429-900-5	<60%
Proprietary Ceramic Powder (128, 134)	*	<60%
Part B Hardener:		
Proprietary Organic Amine	100%	

*proprietary Novalac Epoxy Resin

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Appearance:	Odor:
Resin: Viscous silver liquid.	Sweet odor.
Hardener: Amber transparent liquid.	Ammonia odor.
Melting Or Freezing Point:	N/A
Boiling Point:	N/A
Vapor Pressure (mm Hg) :	N/A
Vapor Density (AIR=1) :	>1.
Solubility In Water:	Negligible.
% Volatile (By Weight):	Negligible.
Specific Gravity (Water 1):	Resin 1.5-1.8 Hardener 0.9-1.2 gr./cc
Evaporation Rate (Butyl Acetate=1) :	<1.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	>295°F.
Auto Ignition Temp.:	N/A
Lower Explosion Limit (%) :	N/A
Upper Explosion Limit (%) :	N/A
Extinguishing Media:	Foam, CO ₂ , Dry.
Chemical:	Water Spray.

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact . Not absorbed in toxic amounts

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed, dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable.

Hazardous Polymerization: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type : Normal room ventilation.

Respiratory Protection : None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves : Impervious.

Eye Protection : Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment : Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Storage: Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.

Corrosive Material : Avoid all eye and skin contact..

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician : Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

PROPRIETARY MATERIAL SAFETY DATA SHEET

COTRONICS

Duralco 134 Thermally Conductive Grease
Duralco 134 AI Conductive Grease
Duralco 135 Thermally Conductive Grease

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

Proprietary Thermally Conductive Grease

SECTION 1: COMPOSITION INFORMATION

Component	CAS #	%
134		
Does not contain hazardous materials		
134 AL		
Aluminum Powder	7429-900-5	60%- 70%

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Appearance:	Viscous silver liquid.
Melting Or Freezing Point:	N/A
Boiling Point:	N/A
Vapor Pressure (mm Hg) :	N/A
Vapor Density (AIR=1) :	>1
Solubility In Water:	Negligible
% Volatile (By Weight):	<2.0
Specific Gravity (Water 1):	1.6-2.2 gr./cc
Evaporation Rate (Butyl Acetate=1) :	<1

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	390° F.
Auto Ignition Temp.:	N/A
Lower Explosion Limit (% :	N/A
Upper Explosion Limit (%):	N/A
Extinguishing Media:	Foam, CO ₂ , Dry.
Chemical:	Water Spray.

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact . Not absorbed in toxic amounts

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed, dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability:	Stable.
Hazardous Polymerization:	Will not occur.
Hazardous Products of Combustion	CO, CO ₂

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type : Normal room ventilation.

Respiratory Protection : None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves : Impervious.

Eye Protection : Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment : Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Storage: Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.

Corrosive Material : Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician : Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/92

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

PRELIMINARY MATERIAL SAFETY DATA SHEET

Duralco Protective Paints

Liquid Aluminizing

201

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A mixture
Formula: N/A
Chemical Family: N/A
Comments: N/A

SECTION 2: COMPOSITION INFORMATION

INGREDIENT	CAS #	WT%	ACGIH-TWA	OSHA-PEL	EH40	313
Ceramic Binder	1344-09-08	40-50%	N/A	N/A	N/A	yes
Aluminum Powder	7429-90-5	40-50%	10 mg/m ³	15 mg/m ³	OES 10 mg/m ³	Yes
Water	7732-18-5	5-15%	N/A	N/A	N/A	No

All materials in this product are listed on the TSCA inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F) : 212°F
Specific Gravity Range (H₂O= 1) : 1.6-2.0
Vapor Pressure (mm Hg.) : 4.3
Vapor Density (Air=1) : N/A
Percent Volatile by Weight (%) : 25-35
Solubility in Water: Soluble
Evaporation Rate (=1) : 1
Appearance and Odor: *After mixing* thick grey liquid, slight odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: Carbon Dioxide, Sand, Dry Chemical
Flash Point (Method Used): N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards N/A
Special Fire Fighting Procedures Coating contains aluminum metal powder do not use water based extinguishing agents.
Upper /Lower Explosion Limits N/A

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SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid) : Aluminum metal powder.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild acid.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* Respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended

Eye Protection: Recommended

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: *Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.*

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 3/20/06 **DATE REVISED:** rev 0

MATERIAL SAFETY DATA SHEET

Cotronics Ceramic Coating Duralco 215

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina
Chemical Formula: N/A
Refractory Ceramic Composition (See Type Above)
Proprietary Silicate or Alumina Colloid Bond
All materials contained within are listed on the TSCA inventory list
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

<i>As Manufactured</i>	<i>WT. %</i>	<i>TVL/PEL</i>
A. Refractory Ceramic Powder	35 - 60	5 mg/ Cu M
Refractory Ceramic Colloid	10 - 20	5 mg/ Cu M
Water	Balance	

B. After Normal Use See Section 8
All materials contained within are listed on the TSCA Inventory list.

SECTION 3: PHYSICAL DATA

	<i>As Supplied</i>	<i>Cured</i>
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O=1) :	1.5 - 3.0	1.2 - 2.5
Percent Volatile by Volume:	20 - 50	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Creamy Paste/No Odor	Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire And Explosive Hazards: N/A
Special Fire Fighting Procedures: N/A
Upper / Lower explosion limits: N/A

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious/quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid) : Powdered aluminum metal
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild alkaline.
Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* Respirators recommended for spray applications.
Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.
Protective Gloves: Recommended.
Eye Protection: Recommended.
Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing: Keep container closed until ready to use.
Other Precautions: *Wash hands thoroughly before eating or smoking. Avoid getting in body openings, including cuts, sores, mouth, etc.*

* (Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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MATERIAL SAFETY DATA SHEET

COTRONICS PROTECTIVE PAINTS

230 230N STAINLESS PAINT

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Proprietary Stainless Composition, Proprietary Silicate, Alumina, Bond
Comments: N/A

SECTION 2: COMPOSITION INFORMATION

WT. %:	TVL/PEL:			
316 Stainless Steel (Alloy)	Fe 7439-89-6	90 -100 (total alloy content)		
	Mo 7439-98-7			
	Ch 7440-47-3			
	Ni 7440-02-0	5-10%	1 mg/cu m	
N/A				
Proprietary Silicate, Alumina, Bond		90-95% (Binder)		

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F) : N/A
Specific Gravity Range (H₂O = 1) : 0.9 - 3.1
Vapor Pressure (mm Hg.) : N/A
Vapor Density (Air=1) : N/A
Percent Volatile by Volume (%) : N/A
Solubility in Water: Insoluble
Evaporation Rate (H₂O=1) : N/A
Appearance: Coarse Aggregate with Fine Powdered Matrix.
Odor: No Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used): N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL N/A, UEL N/A
Special Fire Fighting Procedures: N/A

SECTION 5: HEALTH HAZARD DATA

Nickel or Chromium LD₅₀: Oral Rat > 5000 mg/kg. IARC found there was inadequate evidence that metallic nickel or Chromium is carcinogenic to humans but since there was sufficient evidence that is carcinogenic to animals, IARC concluded that these metallics are possibly carcinogenic to humans. Epidemiological studies of workers exposed to nickel powder and to dust and fumes generated in the production of nickel alloys and of stainless steel have not indicated the presence of a significant respiratory cancer hazard.

Effects Of Overexposure: *Skin Contact:* Repeated contact with metallic nickel can cause nickel sensitivity and allergic skin rashes.

Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

Threshold Limit Value: None

Effects of Overexposure:

Slight dermatological irritation after prolonged skin contact.

Emergency and First Aid Procedures:

Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid): Powdered Aluminum Metal.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled neat cement paste with water, immediately. Cement is not water soluble after setting up.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respirators recommended for spraying applications.

Ventilation: Local Exhaust

Mechanical (General) : Dust

Protective Gloves: Recommended

Eye Protection: Recommended

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 1/01/89 **DATE REVISED:** 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS PROTECTIVE PAINTS

230 THINNER FOR 230 STAINLESS PAINT

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Proprietary Silicate, Alumina Bond
Comments: N/A

SECTION 2: COMPOSITION INFORMATION

Material	CAS #	%
Modified Silicate	1344-09-8	35%-50%

Other non-hazardous materials are proprietary and will not be listed separately

Nature of Hazard: Irritant

After Normal Use, See Section 8

*(1984-85 ACGIH TLV Booklet, Page 50)

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F): 212°F
Specific Gravity Range (H₂O = 1): 0.9 - 1.3
Vapor Pressure (mm Hg.): N/A
Vapor Density (Air=1): N/A
Percent Volatile by Volume (%): N/A
Solubility in Water: soluble
Evaporation Rate (H₂O=1): 1
Appearance: Liquid
Odor: No Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used): N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards:
Lower Explosion Limits N/A
Upper Explosion Limits N/A
Special Fire Fighting Procedures: N/A

SECTION 5: HEALTH HAZARD DATA

Threshold Limit Value: None

SECTION 5: HEALTH HAZARD DATA CONTINUED

Effects of Overexposure:

Slight dermatological irritation after prolonged skin contact.

Emergency and First Aid Procedures:

Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Powdered Aluminum Metal.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Hose spilled liquid with water, immediately.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Respirators recommended for spraying applications.

Ventilation: Local Exhaust

Protective Gloves: Recommended

Eye Protection: Recommended

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 1/01/89 **DATE REVISED:** 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS

DURALCO PROTECTIVE PAINTS 250 SILICON CARBIDE

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Comments: N/A

Chemical Family:

Part A and Part B Powder:

Refractory Ceramic, Composition Ceramic Oxide, Carbide and Nitride.

Part C Liquid: Proprietary Silicate, Alumina, Bond

SECTION 2: COMPOSITION INFORMATION

A.	As Manufactured	WT. %	TVL/PEL
Part A & B:	Respirable Nuisance Dust	100	5 mg/cu m
Part C :	Liquid Binder	100	

* (1984-85)

B. After Normal Use See Section 8

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Mixed	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air = 1) :	>1	N/A
Specific Gravity Range (H₂O = 1) :	1	0.5 - 0.8
Percent Volatile by Volume:	30-50	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O = 1) :	1	N/A
Appearance and Odor:	Black Liquid Paint	No Odor. Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A

Unusual Fire And Explosive Hazards: Lel Uel
Special Fire Fighting Procedures: N/A

SECTION 5: HEALTH HAZARD DATA

Threshold Limit Value: None

Effects Of Overexposure:

Slight dermatological irritation after prolonged skin contact.

Emergency And First Aid Procedures:

Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable.
Incompatibility (Materials to Avoid): Powdered aluminum metal.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Sweep up spilled powder and dispose in approved industrial waste container.

Hose spilled neat cement paste with water, immediately. Cement is not water soluble after setting up.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respirators recommended for spraying applications.

Ventilation: Local Exhaust.

Mechanical (General) : Dust.

Protective Gloves: Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED 11/01/85 DATE REVISED 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS DURASEAL 252

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin

Chemical Formula: N/A

Chemical Family: Silicone

Comments : N/A

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials

Alpha-Isotridecyl-Omega-Hydroxy-Polyglycoether 0.5% - 2.5 %

CAS Registry No.: 9043-30-5

Toluene (trace amount) 0.005%-0.5%

CAS Registry No108-88-3

All materials contained within are listed on the TSCA Inventory list.

This material is non hazardous under OSHA criteria

There are no carcinogenic ingredients present at or over 0.1% in this material This material contains between 0.005 and .05% of toluene identified as being a developmental reproductive toxin based on animal studies

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: White Liquid **Odor:** Odorless

Melting or Freezing Point: -1°C, 30°F

Boiling Point: 100°C, 212°F

Vapor Pressure : 17.25 mm Hg at 20°C (68°F)

Solubility In Water (20°F) : Completely Miscible

Density: 1.04 - 1.2 g/cm³

pH Value 4-6

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA

Boiling Point: 100°C

Autoignition Temp. 455°C

Lower Explosion Limit (%) : N/A.

Upper Explosion Limit(%) : N/A.

Extinguishing Media: All Standard Firefighting Media.

Special Firefighting Procedures: NA

Material does not burn and does not present any unusual fire or explosion hazards.

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: **Inhalation:** Excessive inhalation causes headaches, dizziness, nausea and in coordination. Harmful if inhaled. **Eye Contact:** May cause eye irritation.

Skin Contact: May cause skin irritation. **Ingestion:** Harmful if swallowed. Causes vomiting, nausea, and diarrhea.

No toxic effects are expected and no known physical hazards.

Chronic Effects of Over Exposure: None Expected.

Emergency and First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: If stored and handled according to standard industrial practice none known. For the silicone content of the substance measurements have shown the formation of small amounts of formaldehyde at temperatures above 150°F through oxidation.

Incompatibility (Materials to avoid): None Known.

SECTION 7: SPILL OR LEAK PROCEDURES

Do not introduce into waters, sewage water or soil. Dam in any fluid that runs out using suitable material (earth). Spills of material that reaches waters must be reported to United States coast Guard National Response Centers toll free number 800 424 8802 Wear protective clothing.

Waste Disposal Methods: Incinerate liquid in approved equipment. Incinerate contaminated diking material in accordance with local, state and federal regulations. If small amounts absorb with a liquid binding material If large amount pump into suitable containers. Clean any slippery coating that remains using a cold cleaner (petroleum naphtha or a water/surefactant mix)

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves: Impervious

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep container tightly closed Protect against sun. Minimum temp allowed during storage and transportation 0°C 32°F.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED 12/20/89 REVISED 02/23/06

Page 1 of 2

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS DURALCO 254

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin

Chemical Formula: N/A

Chemical Family: Silicone

Comments : N/A

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials

Alpha-Isotridecyl-Omega-Hydroxy-Polyglycoether 0.5% - 2.5 %

CAS Registry No.: 9043-30-5

Toluene (trace amount) CAS No108-88-3 0.005%-0.5%

Nickel CAS No 7440-02-0 5-10%

All materials contained within are listed on the TSCA Inventory list.

This material is non hazardous under OSHA criteria

There are no carcinogenic ingredients present at or over 0.1% in this material This material contains between 0.005 and .05% of toluene identified as being a developmental reproductive toxin based on animal studies

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: White Liquid **Odor:** Odorless

Melting or Freezing Point: -1°C, 30°F

Boiling Point: 100°C, 212°F

Vapor Pressure : 17.25 mm Hg at 20°C (68°F)

Solubility In Water (20°F) : Completely Miscible

Density: 1.04 - 1.5 g/cm³

pH Value 4-6

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA

Boiling Point: 100°C

Autoignition Temp. 455°C

Lower Explosion Limit (%) : N/A.

Upper Explosion Limit(%) : N/A.

Extinguishing Media: All Standard Firefighting Media.

Special Firefighting Procedures: NA

Material does not burn and does not present any unusual fire or explosion hazards.

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: Inhalation: Excessive inhalation causes headaches, dizziness, nausea and in coordination. Harmful if inhaled. **Eye Contact:** May cause eye irritation.

Skin Contact: May cause skin irritation. **Ingestion:** Harmful if swallowed. Causes vomiting, nausea, and diarrhea.

No toxic effects are expected and no known physical hazards.

Chronic Effects of Over Exposure: None Expected.

Emergency and First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

Nickel: LD50: Oral Rat > 5000 mg/kg.

IARC found there was inadequate evidence that metallic nickel is carcinogenic to humans but since there was sufficient evidence that is carcinogenic to animals, IARC concluded that metallic nickel is possibly carcinogenic to humans. Epidemiological studies of workers exposed to nickel powder and to dust and fumes generated in the production of nickel alloys and of stainless steel have not indicated the presence of a significant respiratory cancer hazard.

Effects Of Overexposure: *Skin Contact:* Repeated contact with metallic nickel can cause nickel sensitivity and allergic skin rashes.

Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: If stored and handled according to standard industrial practice none known. For the silicone content of the substance measurements have shown the formation of small amounts of formaldehyde at temperatures above 150°F through oxidation.

Incompatibility (Materials to avoid): None Known.

SECTION 7: SPILL OR LEAK PROCEDURES

Do not introduce into waters, sewage water or soil. Dam in any fluid that runs out using suitable material (earth). Spills of material that reaches waters must be reported to United States coast Guard National Response Centers toll free number 800 424 8802 Wear protective clothing.

Waste Disposal Methods: Incinerate liquid in approved equipment. Incinerate contaminated diking material in accordance with local, state and federal regulations. If small amounts absorb with a liquid binding material If large amount pump into suitable containers. Clean any slippery coating that remains using a cold cleaner (petroleum naphtha or a water/surfactant mix)

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves: Impervious

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep container tightly closed Protect against sun. Minimum temp allowed during storage and transportation 0°C 32°F.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED 12/20/89 REVISED 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS

300, 3000, UT3300 Ceramic Paper
 375 Thermal Stop 390 Ceramic Tapes
 360 Ceramic Board 3360 Ceramic Board
 370 Ceramic Blanket 3370 Ceramic Blanket
 300LI Loose Insulation 396, 396HT Ceramic Ropes
 7011, 7012 Thermal Boards

Manufactures Name: COTRONICS CORPORATION
 3379 Shore Parkway Brooklyn, NY 11235
 Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Chemical Family : Aluminosilicate, Alumina, or Silica
Chemical Formula: N/A
Comments: See Section 9

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	CAS	TVL/PEL
Refractory Ceramic Fiber	100	142844-00-6	2f/cc

B. After Normal Use:
 See Section 8

All materials contained within are listed on the TSCA Inventory list.
 This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F) : N/A
Vapor Density (Air = 1) : N/A
Specific Gravity Range (H₂O = 1) : 0.2-1.0
Percent volatile by Volume: N/A
(%)Solubility in Water: INSOLUBLE
Evaporation Rate (H₂O = 1) : N/A
Appearance and Odor: White Paper Board or Mat, No Odor
Vapor Pressure (mm Hg.) : N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media	Flash Point (Method Used)	Flammable Limit
N/A	N/A	N/A
Unusual Fire and Explosive Hazards	Special Fire Fighting Procedures	
LEL, UEL	N/A	N/A

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DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion and Skin Irritation
Effects Of Overexposure:

Currently, there are no known chronic health effects in humans from long term exposure to refractory ceramic fibers. Animal studies to date are inconclusive. However, based on limited testing, refractory ceramic fibers are a suspected carcinogen in laboratory animals. The Thermal Insulation Manufacturers Association (TIMA) is sponsoring animal inhalation studies as well as epidemiological studies of workers in the industry. Until definite answers become available, strict adherence to recommended safe work practices described elsewhere in this MSDS is advised. This product contains minor amounts of binders which burn out during first heat up. Emergency and First Aid Procedures Terminate Exposure.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Not Flammable

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: N/A
Waste Disposal Method: Routine Housekeeping

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Dust respirator in compliance with OSHA Standard currently 29 CFR 1910.134 (NIOSH "N OR P100" Approved, air purifying, half mask or full face-piece respirator.)
Ventilation / Local Exhaust: Follow OSHA Standard 29 CFR 1910.94
Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94
Protective Gloves: Recommended
Eye Protection: Goggles/Safety Glasses Recommended
Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream
 Material does not appear on NTP and/or LAC lists of reports for Carcinogens.

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be taken during first exposure to heat:
 Trace temporary organic binders will burn off during the first exposure to heat. (500-1000°F) carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and a small amount of formaldehyde may accompany binder burn-off. Use adequate ventilation or other precautions to eliminate vapors resulting from binder burn-off. Exposure to burn-off fumes may cause respiratory tract irritation.
Precautions to be taken after use and upon removal:
 This product as manufactured is an aluminosilicate which could transform upon heating to mullite and cristobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula:

$$10 \text{ mg/cu m} \times \frac{1}{2}(\text{-----})\#$$

$$\% \text{ Respirable quartz} + 2$$

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved "N OR P100", air purifying, half mask or full face-piece respirator.)

MATERIAL SAFETY DATA SHEET
COTRONICS
DURALCO 254 THINNER

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin
Chemical Formula: N/A
Chemical Family: Silicone
Comments : N/A

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials

Alpha-Isotridecyl-Omega-Hydroxy-Polyglycoether 0.25% - 1.25 %
CAS Registry No.: 9043-30-5
Toluene (trace amount) 0.0025%-0.25%
CAS Registry No108-88-3

All materials contained within are listed on the TSCA Inventory list.

This material is non hazardous under OSHA criteria

There are no carcinogenic ingredients present at or over 0.1% in this material This material contains between 0.005 and .05% of toluene identified as being a developmental reproductive toxin based on animal studies

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: White Liquid **Odor:** Odorless
Melting or Freezing Point: -1°C, 30°F
Boiling Point: 100°C, 212°F
Vapor Pressure : 17.25 mm Hg at 20°C (68°F)
Solubility In Water (20°F) : Completely Miscible
Density: 1.00 - 1.2 g/cm³
pH Value 5.5-6.5

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA
Boiling Point: 100°C
Autoignition Temp. 455°C
Lower Explosion Limit (%) : N/A.
Upper Explosion Limit(%) : N/A.
Extinguishing Media: All Standard Firefighting Media.
Special Firefighting Procedures: NA

Material does not burn and does not present any unusual fire or explosion hazards.

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: **Inhalation:** Excessive inhalation causes headaches, dizziness, nausea and in coordination. Harmful if inhaled. **Eye Contact:** May cause eye irritation.

Skin Contact: May cause skin irritation. **Ingestion:** Harmful if swallowed. Causes vomiting, nausea, and diarrhea.

No toxic effects are expected and no known physical hazards. ,

Chronic Effects of Over Exposure: None Expected.

Emergency and First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: If stored and handled according to standard industrial practice none known. For the silicone content of the substance measurements have shown the formation of small amounts of formaldehyde at temperatures above 150°F through oxidation.

Incompatibility (Materials to avoid): None Known.

SECTION 7: SPILL OR LEAK PROCEDURES

Do not introduce into waters, sewage water or soil. Dam in any fluid that runs out using suitable material (earth). Spills of material that reaches waters must be reported to United States coast Guard National Response Centers toll free number 800 424 8802
Wear protective clothing.

Waste Disposal Methods: Incinerate liquid in approved equipment. Incinerate contaminated diking material in accordance with local, state and federal regulations. If small amounts absorb with a liquid binding material If large amount pump into suitable containers. Clean any slippery coating that remains using a cold cleaner (petroleum naphtha or a water/surefactant mix)

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves: Impervious

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep container tightly closed Protect against sun. Minimum temp allowed during storage and transportation 0°C 32°F.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED 12/20/89 REVISED 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET
COTRONICS
DURASEAL 252 THINNER

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin

Chemical Formula: N/A

Chemical Family: Silicone

Comments : N/A

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials

Alpha-Isotridecyl-Omega-Hydroxy-Polyglycoether 0.25% - 1.25 %

CAS Registry No.: 9043-30-5

Toluene (trace amount) 0.0025%-0.25%

CAS Registry No108-88-3

All materials contained within are listed on the TSCA Inventory list.

This material is non hazardous under OSHA criteria

There are no carcinogenic ingredients present at or over 0.1% in this material This material contains between 0.005 and .05% of toluene identified as being a developmental reproductive toxin based on animal studies

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: White Liquid **Odor:** Odorless

Melting or Freezing Point: -1°C, 30°F

Boiling Point: 100°C, 212°F

Vapor Pressure : 17.25 mm Hg at 20°C (68°F)

Solubility In Water (20°F) : Completely Miscible

Density: 1.00 - 1.2 g/cm³

pH Value 5.5-6.5

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA

Boiling Point: 100°C

Autoignition Temp. 455°C

Lower Explosion Limit (%) : N/A.

Upper Explosion Limit(%) : N/A.

Extinguishing Media: All Standard Firefighting Media.

Special Firefighting Procedures: NA

Material does not burn and does not present any unusual fire or explosion hazards.

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: **Inhalation:** Excessive inhalation causes headaches, dizziness, nausea and in coordination. Harmful if inhaled. **Eye Contact:** May cause eye irritation.

Skin Contact: May cause skin irritation. **Ingestion:** Harmful if swallowed. Causes vomiting, nausea, and diarrhea.

No toxic effects are expected and no known physical hazards. ,

Chronic Effects of Over Exposure: None Expected.

Emergency and First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: If stored and handled according to standard industrial practice none known. For the silicone content of the substance measurements have shown the formation of small amounts of formaldehyde at temperatures above 150°F through oxidation.

Incompatibility (Materials to avoid): None Known.

SECTION 7: SPILL OR LEAK PROCEDURES

Do not introduce into waters, sewage water or soil. Dam in any fluid that runs out using suitable material (earth). Spills of material that reaches waters must be reported to United States coast Guard National Response Centers toll free number 800 424 8802 Wear protective clothing.

Waste Disposal Methods: Incinerate liquid in approved equipment. Incinerate contaminated diking material in accordance with local, state and federal regulations. If small amounts absorb with a liquid binding material If large amount pump into suitable containers. Clean any slippery coating that remains using a cold cleaner (petroleum naphtha or a water/surefactant mix)

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves: Impervious

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep container tightly closed Protect against sun. Minimum temp allowed during storage and transportation 0°C 32°F.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED 12/20/89 REVISED 02/23/06

Page 2 of 2

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics Corporation Duralco 215 Thinner

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Family: Alumina

Chemical Formula: N/A

Refractory Ceramic Composition (See Type Above)

Proprietary Silicate or Alumina Colloid Bond

All materials contained within are listed on the TSCA inventory list.

This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

As Manufactured	WT. %	TVL/PEL
------------------------	--------------	----------------

Water based colloid	100	N/A
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Note: Other non hazardous ingredients will not be listed separately

All materials used in the manufacture of this product are on the TSCA inventory list

All materials contained within are listed on the TSCA Inventory list.

SECTION 3: PHYSICAL DATA

	As Supplied
Boiling Point (°F) :	212
Vapor Density (Air=1) :	Water
Specific Gravity Range (H₂O=1) :	1.25 - 2.1
Percent Volatile by Volume:	20 - 50
(%) Solubility in Water:	Soluble
Evaporation Rate (H₂O=1) :	1
Appearance/Odor:	Opalescent liquid, No Odor.
Vapor Pressure (mm Hg.) :	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	N/A
Flash Point (Method Used) :	N/A
Flammable Limit:	N/A
Unusual Fire and Explosive Hazards:	N/A
Special Fire Fighting Procedures:	N/A
Upper / Lower explosion limits:	N/A

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.

Emergency And First Aid Procedures: Flush eyes and skin with copious/quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid) : Powdered aluminum metal

Hazardous Decomposition Products: None

Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Dispose in approved industrial waste container. Hose spilled liquid with water, immediately. Note Liquid is mildly alkaline.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* Respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing: Keep container closed until ready to use.

Other Precautions: *Wash hands thoroughly before eating or smoking. Avoid getting in body openings, including cuts, sores, mouth, etc.*

* (Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

Disclaimer: *The information supplied is not to be taken as warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. All risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions or suggestions is borne by the user.*

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

DURALCO 128, 132, 133, 134, 140

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: 128, 132, 140 - Amine Complex
133 - Acid Anhydride Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Off white opaque amber liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat. LD₅₀ = 9.8 Mg/L ALC

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. LD₅₀ = 7500 Mg/Kg ALD

Ingestion: Harmful if swallowed. LD₅₀ = > 2500 Mg/Kg ALD

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

*Note all materials contained are listed on the EPA TSCA Inventory list.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

DURALCO 128, 132, 133, 140

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: 128, 132, 140 - Amine Complex
133 - Acid Anhydride Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Off white opaque amber liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat. LD₅₀ = 9.8 Mg/L ALC

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. LD₅₀ = 7500 Mg/Kg ALD

Ingestion: Harmful if swallowed. LD₅₀ = > 2500 Mg/Kg ALD

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

*Note all materials contained are listed on the EPA TSCA Inventory list.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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MATERIAL SAFETY DATA SHEET COTRONICS

310 CERAMIC ADHESIVE

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina Silicate, Alumina, or Silicate
Chemical Formula: N/A
Comments: See Section 9

SECTION 2: COMPOSITION INFORMATION

As Manufactured	WT. %	CAS	TVL/PEL
A. Refractory Ceramic Fiber	20 - 30	142844-00-6	2F/cc
Refractory Ceramic Colloid	30 - 50	Proprietary	
Water	50 - 70	7732-18-5	
B. After Normal Use	See Section 8		

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H ₂ O=1) :	1	0.5 - 0.8
Percent Volatile By Volume:	50 - 70*	N/A
(%) Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H ₂ O=1) :	1	N/A
Appearance/Odor:	Creamy Paste No Odor.	Solid
Vapor Pressure (mm Hg.) :	17	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL= N/A
Special Fire Fighting Procedures: UEL= N/A

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DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

SECTION 5: HEALTH HAZARD DATA

Primary Route of Entry: Inhalation, Ingestion and Skin Irritation.

Effects of Overexposure: Currently, there are no known chronic health effects in humans from long term exposure to refractory ceramic fibers. Animal studies to date are inconclusive. However, based on limited testing, refractory ceramic fibers are a suspected carcinogen in laboratory animals. The Thermal Insulation Manufacturers Association (TIMA) is sponsoring animal inhalation studies as well as epidemiological studies of workers in the industry. Until definite answers become available, strict adherence to recommended safe work practices described elsewhere in this MSDS is advised. This product contains minor amounts of binders which burn out during first heat up.

Emergency and First Aid Procedures: Terminate Exposure.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: N/A

Waste Disposal Method: Routine Housekeeping

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Dust respirator in compliance with OSHA STANDARD currently 29 CFR 1910.134 (NIOSH Approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.

Protective Gloves: Recommended.

Eye Protection: Goggles/Safety Glasses Recommended.

Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream.
Material does not appear on NTP and/or LAC lists of reports for Carcinogens

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken During First Exposure To Heat: Trace temporary organic binders will burn off during the first exposure to heat. (500-1000°F) carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and a small amount of formaldehyde may accompany binder burn-off. Use adequate ventilation or other precautions to eliminate vapors resulting from binder burn-off. Exposure to burn-off fumes may cause respiratory tract irritation.

Precautions To Be Taken After Use And Upon Removal: This product as manufactured is an alumina silicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS

360M Moldable **310 Liquid Foam**
3360M Moldable **372, 372UHT and 3372 Wrap It**

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina-silicate, Alumina, Or Silicate
Chemical Formula: N/A
Comments: See Section 9

SECTION 2: COMPOSITION INFORMATION

A.As Manufactured	WT. %	CAS	TVL/PEL
Refractory Ceramic Fiber	20 - 30	142844-00-6	2F/ cc
Refractory Ceramic Colloid	20 - 30	Proprietary	
Water	40 - 50		

B. After Normal Use See Section 8

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air = 1) :	>1	N/A
Specific Gravity Range (H ₂ O = 1) :	1	0.5 - 0.8
Percent Volatile by Weight:	70 - 80	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H ₂ O = 1) :	1	N/A
Appearance and Odor:	Creamy Paste	No Odor. Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A **Flash Point (Method Used) :** N/A **Flammable Limit:** N/A
Unusual Fire And Explosive Hazards: Lel Uel **Special Fire Fighting Procedures:** N/A

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DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion and Skin Irritation

Effects Of Overexposure:

Currently, there are no known chronic health effects in humans from long term exposure to refractory ceramic fibers. Animal studies to date are inconclusive. However, based on limited testing, refractory ceramic fibers are a suspected carcinogen in laboratory animals. The Thermal Insulation Manufacturers Association (TIMA) is sponsoring animal inhalation studies as well as epidemiological studies of workers in the industry. Until definite answers become available, strict adherence to recommended safe work practices described elsewhere in this MSDS is advised. This product contains minor amounts of binders which burn out during first heat up. Emergency and First Aid Procedures Terminate Exposure.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: N/A
Waste Disposal Method: Routine Housekeeping

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Dust respirator in compliance with OSHA STANDARD currently 29 CFR 1910.134 (NIOSH Approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.

Protective Gloves: Recommended.

Eye Protection: Goggles/Safety Glasses Recommended.

Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream. Material does not appear on NTP and/or LAC lists of reports for Carcinogens

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken During First Exposure To Heat:

Trace temporary organic binders will burn off during the first exposure to heat. (500 - 1000°F) carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and a small amount of formaldehyde may accompany binder burn-off. Use adequate ventilation or other precautions to eliminate vapors resulting from binder burn-off. Exposure to burn-off fumes may cause respiratory tract irritation.

* Note for 372 UHT and 3372 thermal decomposition will release corrosive HCl fumes during the first exposure to heat.

Precautions To Be Taken After Use And Upon Removal :

This product as manufactured is an aluminosilicate which could transform upon heating to mullite and cristobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
½(-----)#
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

**MATERIAL SAFETY DATA SHEET
COTRONICS WOVEN
CERAMIC FIBER PRODUCTS**

**391 Ultra Temp - 398 Thermeez - 395 Thermeez Tape
397 - Thermeez Tape - 399 Ultra Silica**

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Chemical Family: 395 and 397 Silicate-Calcium-Alumino complex,
391 Alumina, 399 Silica, 398 Nomex Aramid

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured **WT. %**
Ceramic Fiber Dia. 100 6-12 Microns

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F): N/A
Specific Gravity Range (H₂O = 1): 0.2 - 1.2
Vapor Pressure (mm Hg.): N/A
Vapor Density (Air = 1): N/A
Percent Volatile by Volume (%): N/A
Solubility in Water: Insoluble
Evaporation Rate (H₂O = 1) : N/A
Appearance and Odor: Fiber Shape. No Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A **Lower Explosion Limits:** N/A
Flash Point (Method Used): N/A **Upper Explosion Limits:** N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: N/A
Special Fire Fighting Procedures: N/A

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* 395 and 397 is considered as Nuisance dust PEL of 5 mg/m³

** (Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

** Not Required for types 391 and 398

SECTION 5: HEALTH HAZARD DATA

Primary Route of Entry: Inhalation, Ingestion
Effects Of Overexposure: nose and throat Irritation and Skin Irritation
Due to their large Diameter (6-12 microns) these Ceramic Fibers are considered non-respirable and would be expected to cause only minor nose and throat Irritation if inhaled.
These products contains minor amounts of binders which burn out during first heat up. Emergency and First Aid Procedures Terminate Exposure.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: N/A
Waste Disposal Method: Routine Housekeeping

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Dust respirator in compliance with OSHA STANDARD currently 29 CFR 1910.134 (NIOSH Approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).
Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.
Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.
Protective Gloves: Recommended.
Eye Protection: Goggles/Safety Glasses Recommended.
Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream.
Material does not appear on NTP and/or LAC lists of reports for Carcinogens.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken During First Exposure To Heat:
Trace temporary organic binders will burn off during the first exposure to heat.(500/1000 °F) carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons may accompany binder burn-off. Use adequate ventilation or other precautions to eliminate vapors resulting from binder burn-off. Exposure to burn-off fumes may cause respiratory tract irritation.
Precautions To Be Taken after Use and Upon Removal:
For Type 399*
This product as manufactured is an silica which could transform upon heating to cristobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

Date prepared : 11/01/85 Date revised : 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESINS

EPOX-EEZ RK456 EPOX-EEZ 456

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin.*

SECTION 2: COMPOSITION INFORMATION

Chemical Family: CAS	%	
Epoxy Resin	Proprietary	50 - 70%S
Stainless :	Fe 7439-89-6	30 - 50%
	Mo 7439 -98-7	
	Ch 7440-47-3	
	Ni 7440-02-0	

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.1 - 2.0
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: N/A
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Grey to Viscous Black Liquid/Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower xplosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Nickel:LD50 Oral Rat >5000mg/kg IRAC found there was inadequate evidence that metallic nickel or chromium is carcinogenic to humans but since there was sufficient evidence that is carcinogenic to animals. IARC concluded that metallic nickel chromium is possibly carcinogenic to humans Epidemiological studies of workers exposed to nickel powder and to dust and fumes generated in the production of nickel alloys and of stainless steel have not indicated the presence of a significant respiratory cancer hazard.

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts

Ingestion: Possibly harmful if swallowed. LD > 4000 mg/Kg.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

Sara Section 313 Supplier Notification this product contains the following chemicals subject to the reporting requirements of section 313 of the emergency planning and community Right-To-Know Act of 1968 and of 40 CFR 372: Nickel, Chromium. Refer to the Hazardous Ingredients section of the MSDS for CAS numbers.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse.

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

RESBOND 507TS RESIN

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin

Use with Cotronics' type two hardeners.

SECTION 2: COMPOSITION INFORMATION

Boiling Point: 400°F
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.16
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: <40°F
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Viscous Amber Transparent Liquid - Low Odor.
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.
Ingestion: Possibly harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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Page 1 of 2

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

Resbond 507TS Hardener

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Off white opaque amber liquid/Amine odor
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Possibly harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

EPOX-EEZ RK456 EPOX-EEZ 456

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: See Above

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Black/Amine odor
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.
*Note all materials contained are listed on the EPA TSCA Inventory list.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

RESBOND 507TS RESIN

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin

Use with Cotronics' type two hardeners.

SECTION 2: COMPOSITION INFORMATION

Boiling Point: 400°F
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.16
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: <40°F
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Viscous Amber Transparent Liquid - Low Odor.
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.
Ingestion: Possibly harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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Page 1 of 2

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

Resbond 507TS Hardener

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Off white opaque amber liquid/Amine odor
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Possibly harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

**MATERIAL SAFETY DATA SHEET
COTRONICS WOVEN
CERAMIC FIBER PRODUCTS**

640 Double Sided Tape

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name & Synonyms: Glass Cloth, Pressure Sensitive, Double sided tape

Formula: N/A

Chemical Family: N/A

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured	CAS	WT. %	ACGIH TLV	OSHA PEL
Fibrous glass	65997-17-3	10-60	1mg/m3	considered nuisance dust
Trimethylated silica	068988567	5-30	N/A	
Dimethyl siloxane	070131678	5-30	N/A	
Hydroxy terminated				

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F):	N/A
Specific Gravity Range (H₂O = 1):	N/A
Vapor Pressure (mm Hg.):	N/A
Vapor Density (Air = 1):	N/A
Percent Volatile by Volume (%):	N/A
Solubility in Water:	Insoluble
Evaporation Rate (H₂O = 1) :	N/A
Appearance and Odor:	White/Off white coated fabric with pres. Sens. Adhesive and paper or plastic release liner. Fiber Shape.No Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	N/A
Lower Explosion Limits:	N/A
Flash Point (Method Used):	N/A
Upper Explosion Limits:	N/A
Flammable Limit:	N/A solid material
Unusual Fire and Explosive Hazards:	N/A
Special Fire Fighting Procedures:	N/A

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SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Skin Contact with pressure sensitive adhesive faces may cause skin irritation or injury.

Eyes not likely to have contact

Inhalation none know

Ingestion not likely to be ingested

Delayed Effects none known

nose and throat Irritation and Skin Irritation

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stable

Materials to Avoid: strong oxidizers, acids, bases, organic solvents

Avoid excessive temperatures and high humidity

Hazardous polymerization will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Waste Disposal Method: *Non toxic non water soluble non biodegradable dispose of in an approved landfill or by incineration in compliance with federal state and local regulation*

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Dust respirator in compliance with OSHA STANDARD currently 29 CFR 1910.134 (NIOSH Approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

Ventilation: Local Exhaust:

Protective Gloves: Recommended.

Eye Protection: Goggles/Safety Glasses Recommended.

Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream. Material does not appear on NTP and/or LAC lists of reports for Carcinogens.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken During First Exposure To Heat:

Trace temporary organic binders will burn off during the first exposure to heat.(5001000 °F) carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons may accompany binder burn-off. Use adequate ventilation or other precautions to eliminate vapors resulting from binder burn-off. Exposure to burn-off fumes may cause respiratory tract irritation.

Precautions To Be Taken after Use and Upon Removal:

For Type 399*

This product as manufactured is an silica which could transform upon heating to cristobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

½(-----)#

% Respirable quartz + 2

Date prepared : 11/01/85

Date revised : 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS 700 SERIES CASTABLE CERAMICS

RTC-60 Castable Alumina Ceramic 760 Liquid Zirconium Oxide
RTC-70 Castable Alumina Ceramic 770 Liquid Silicon Carbide
740 Liquid Alumina Silica 780 Liquid Alumina
750 Liquid Fused Silica 310LF Liquid Ceramic Foam
Rescor LX

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Formula: N/A

Base (part A) : Powder

Chemical Family: Refractory Ceramic Composition. Proprietary Alumina, Zirconia, Silica, Silicon Carbide.

Activator (Part B) : Liquid

Chemical Family: Proprietary Water Based Colloid Composition (Alumina, Silica)

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

A.	As Manufactured	WT. %	TVL/PEL
Base:	Respirable Nuisance Dust	100	5 mg/cu m*

* (1984-85 ACGIH TLV Booklet, Page 50)

SECTION 3A: BASE (POWDER) PHYSICAL DATA

Boiling Point (°F) : N/A
Specific Gravity Range (H₂O = 1) : 0.9 - 3.1
Vapor Pressure (mm Hg.) : N/A
Vapor Density (Air=1) : N/A
Percent Volatile by Volume (%) : N/A
Solubility in Water: Insoluble
Evaporation Rate (=1) : N/A
Appearance and Odor: Fine Powdered Matrix with Coarse Aggregate
No Odor.

SECTION 3B: ACTIVATOR (LIQUID) PHYSICAL DATA

Activator Supplied with RTC-70, 740, 750, 760, 780, 360LF, Rescor LX
Boiling Point (°F) : 212
Specific Gravity Range (H₂O = 1) : 1.25 - 2.1
Vapor Pressure (mm Hg.) : 24 @ 77°F
Vapor Density (Air=1) : Water
Percent Volatile by Weight (%) : 50- 70
Solubility in Water: Soluble
Evaporation Rate (=1) : 1
Appearance and Odor: Opalescent liquid No Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire And Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation.

Effects of Overexposure: Nuisance dust may cause Nasal, Throat or Lung irritation or discomfort May aggravate Bronchial disorders. Slight dermatological irritation after prolonged skin contact.

Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid) : None
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Sweep up spilled powder and dispose in approved industrial waste container.
Hose spilled neat cement paste with water, immediately. Cement is not water soluble after setting up. **Waste Disposal Method:** Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) :

Dust respirator in compliance with OSHA Standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge (s)).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.

SECTION 8: SPECIAL PRECAUTIONS

This product as manufactured contains silicate which could transform upon heating to mullet and crystalbalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica is derived from the formula

10 mg/cu m
½(-----)#
% Respirable quartz +

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85 **DATE REVISED:** 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Resbond Ceramic Binders 791, 792, 793, 794, 795, 797

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina, Silica, Zirconia, Phosphate
Chemical Family: Refractory Ceramic Colloid based on.
Proprietary Silicate, Phosphate, Alumina, Zirconia, Colloid Bond.

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Liquid Binder or Thinner		
Refractory Ceramic Colloid	20 - 50	N/A
Water	50 - 80	
B. After Normal Use See Section 8		
C. Mist or Dried dust from spraying (Not formed in normal use)	30 - 50	10 mg/m ³

All Materials contained within are located on the TSCA Inventory List
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied:	Cured:
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O=1) :	1 - 2.2	1.2 - 2.5
Percent Volatile by Volume:	20 - 50	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Clear or Opalescent Liquid	Solid, No Odor
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire And Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion, Eyes and Skin Irritation.
Effects Of Overexposure: Long term overexposure to inhalation of mists or dust of dried down particles may cause tissue response in the lung (PNEUMOCONIOSIS).
Emergency & First Aid Procedures: Terminate exposure. Flush eyes with water for 15 minutes.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Routine Housekeeping, Wash With Water.
Waste Disposal Method: Industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respiratory protection is not normally needed since the volatility and toxicity are low. If significant mists or aerosols are generated, wear a NIOSH approved or equivalent respirator, (ANSI Z 88.2, 1980 for requirements and selection).

Ventilation: 1910.94

Local Exhaust: Follow OSHA Standard 29 CFR

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94

Protective Gloves: Recommended

Eye Protection: Goggles/Safety Glasses Recommended

Other Protective Equipment: As required to meet applicable OSHA Standards.

SECTION 9: SPECIAL PRECAUTION

Precautions To Be Taken After Use And Upon Removal:

This product as manufactured is a Silicate could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

DISCLAIMER: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics 800 SERIES THINNERS & ACTIVATORS Use With the Equivalent 800 Series Compound

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina, Quartz, Magnesia, Zirconia, or Silica
Chemical Family: Refractory Ceramic Colloid
Proprietary Silicate, Phosphate, Alumina, Zirconia, Colloid Bond.

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Liquid Binder or Thinner		
Refractory Ceramic Colloid	20 - 50	N/A
Water	50 - 80	
B. After Normal Use See Section 8		
C. Mist or Dried dust from spraying	30 - 50	10 mg/m ³
(Not formed in normal use)		

All Materials contained within are located on the TSCA Inventory List
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied:	Cured:
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O=1) :	1 - 2.2	1.2 - 2.5
Percent Volatile by Volume:	20 - 50	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Clear or Opalescent Liquid	Solid, No Odor
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion, Eyes and Skin Irritation.
Effects Of Overexposure: Long term overexposure to inhalation of mists or dust of dried down particles may cause tissue response in the lung (PNEUMOCONIOSIS).
Emergency & First Aid Procedures: Terminate exposure. Flush eyes with water for 15 minutes.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Routine Housekeeping, Wash With Water.
Waste Disposal Method: Industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respiratory protection is not normally needed since the volatility and toxicity are low. If significant mists or aerosols are generated, wear a NIOSH approved or equivalent respirator, (ANSI Z 88.2, 1980 for requirements and selection).

Ventilation: 1910.94

Local Exhaust: Follow OSHA Standard 29 CFR

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94

Protective Gloves: Recommended

Eye Protection: Goggles/Safety Glasses Recommended

Other Protective Equipment: As required to meet applicable OSHA Standards.

SECTION 9: SPECIAL PRECAUTION

Precautions To Be Taken After Use And Upon Removal:

This product as manufactured is a Silicate could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

TRADE NAME

COTRONICS DURAPOT 800 SERIES

DURAPOT 801 DURAPOT 804 DURAPOT 805
DURAPOT 808 DURAPOT 809 DURAPOT 810
DURAPOT 814 DURAPOT 820 DURAPOT 821

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Family: Alumina, Quartz, Magnesia, Zirconia, or Silica

Chemical Family: Refractory Ceramic Colloid

Proprietary Silicate, Phosphate, Alumina, Zirconia, Colloid Bond.

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Liquid Binder or Thinner		
Refractory Ceramic Colloid	20 - 50	N/A
Water	50 - 80	
B. After Normal Use See Section 8		
C. Mist or Dried dust from spraying	30 - 50	10 mg/m ³
(Not formed in normal use)		

All Materials contained within are located on the TSCA Inventory Lis
This product is compliant with the RoHS Directive.t

SECTION 3: PHYSICAL DATA

	As Supplied	As Cured
Boiling Point (°F) :	212°F	N/A
Specific Gravity (H₂O=1) :	1.2 - 1.4	1.2-2.5
Vapor Pressure (mm Hg.) :	0.2-1.2	N/A
Vapor Density (Air=1) :	>1	N/A
Percent Volatile By Volume:	20-50	N/A
Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Clear or Opalescent liquid /No Odor	Solid No Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	N/A
Flash Point (Method Used) :	N/A
Flammable Limit:	N/A
Unusual Fire and Explosive Hazards:	LEL = N/A
Special Fire Fighting Procedures:	UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion, Eyes and Skin Irritation.

Effects Of Overexposure: Long term overexposure to inhalation of mists or dust of dried down particles may cause tissue response in the lung (Pneumoconiosis).

Emergency & First Aid Procedures: Terminate exposure. Flush eyes with water for 15 minutes. Call a doctor

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Routine Housekeeping

Waste Disposal Method: N/A

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respiratory protection is not normally needed since the volatility and toxicity are low. If significant mists or aerosols are generated, wear a NIOSH approved or equivalent respirator, (ANSI Z-88.2, 1980 for requirements and selection).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.

Protective Gloves: Recommended.

Eye Protection: Goggles/Safety Glasses Recommended.

Other Protective Equipment: As required to meet applicable OSHA Standards .

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken After Use And Upon Removal: This product as manufactured is a Silicate could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: $10 \text{ mg/cu m} \times \frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 1 of 2

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET
TRADE NAME
COTRONICS DURAPOT 800 SERIES

DURAPOT 801 DURAPOT 804 DURAPOT 805
DURAPOT 808 DURAPOT 809 DURAPOT 810
DURAPOT 814 DURAPOT 820 DURAPOT 821

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Refractory Ceramic Composition
Comments: N/A
Proprietary Silicate, Phosphate, Alumina, Zirconia, Bond

SECTION 2: COMPOSITION INFORMATION

<i>As Manufactured</i>	<i>WT. %</i>	<i>TVL/PEL</i> Respirable Nuisance
Part A		
Dust	100	5 mg/cu m*

*(1984-85 ACGIH TLV Booklet, Page 50) After Normal Use See Section 8

Part B

See page 2

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F): N/A
Specific Gravity Range (H₂O = 1): 0.9 - 3.1
Vapor Pressure (mm Hg.): N/A
Vapor Density (Air=1): N/A
Percent Volatile by Volume (%): N/A
Solubility in Water: Insoluble
Evaporation Rate (=1): N/A
Appearance/Odor: Coarse Aggregate with Fine Powdered Matrix.
No Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: **Flash Point (Method Used):** **Flammable Limit:**
N/A N/A N/A

Unusual Fire and Explosive Hazards: **Special Fire Fighting Procedures:**
Lel Uel = N/A N/A

SECTION 5: HEALTH HAZARD DATA

Threshold Limit Value: None

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.

Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): None
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Sweep up spilled powder and dispose in approved industrial waste container.

Hose spilled neat cement paste with water, immediately. Cement is not water soluble after setting up.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Respirators recommended for applications.

Ventilation: Local Exhaust: Dust

Mechanical (General): Dust

Protective Gloves: Recommended

Eye Protection: Recommended

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85 **DATE REVISED:** 02/23/06

MATERIAL SAFETY DATA SHEET

TRADE NAME

DURAPOT 815 Binder

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alkyl Silicone Resin, Refractory Ceramic Colloid
Chemical Formula: N/A

SECTION 2: COMPOSITION INFORMATION

Hazardous Materials	CAS	WT. %
Alpha-Isotridecyl-Omega-Hydroxy-Polyglycoether	9043-30-5	0.25%-1.25%
Toluene (trace amount)	108-88-3	0.0025%-0.25%

All Materials contained within are located on the TSCA Inventory List
This material is considered to be non hazardous according to OSHA Criteria
There are no carcinogenic materials present at or over 0.1% in this material. This material contains between 0.0025% and 0.25% of toluene identified as being a developmental reproductive toxin based on animal studies
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

As Supplied

Boiling Point (°F) : 212°F
Specific Gravity (H₂O=1) : 1.2 - 1.4
Vapor Pressure (mm Hg.) : 17.25 mm Hg at 20°C
Vapor Density (Air=1) : >1
Percent Volatile By Volume: 20-50
Solubility In Water: Completely miscible
Evaporation Rate (H₂O=1) : 1
Appearance/Odor: Clear or Opalescent liquid
No Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion, Eyes and Skin Irritation.
Effects Of Overexposure: Long term overexposure to inhalation of mists or dust of dried down particles may cause tissue response in the lung (Pneumoconiosis).
Emergency & First Aid Procedures: Terminate exposure. Flush eyes with water for 15 minutes. Call a doctor.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): None
Hazardous Decomposition Products: None
Hazardous Polymerization: Will not occur if stored and handled in accordance with standard industrial practices. The following applies for the silicone content of the substance measurements have shown the formation of small amounts of formaldehyde at temp. Above about 150°C through oxidation.

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Routine Housekeeping
Waste Disposal Method: Prevent from entering surface waters. Contain any spills with suitable maerail (earth) and dispose of according to local state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respiratory protection is not normally needed since the volatility and toxicity are low. Recommended to wear a NIOSH approved or equivalent respirator, (ANSI Z-88.2, 1980 for requirements and selection).
Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.
Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.
Protective Gloves: Recommended.
Eye Protection: Goggles/Safety Glasses Recommended.
Other Protective Equipment: As required to meet applicable OSHA Standards .

SECTION 9: SPECIAL PRECAUTIONS

Keep container tightly closed. Protect against sun. Minimum temp. Protect against frost. Allowed during storage and transportation 0°C /32°F.

Note to Physician Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and / or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 1 of 2

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

PROPRIETARY MATERIAL SAFETY DATA SHEET
COTRONICS EPOXY RESINS

Durapot 861 Durapot 861A Durapot 862 Durapot 863 Durapot 864
Durapot 865 Durapot 866 Durapot 867 Durapot 868

SECTION ONE: SUPPLIER INFORMATION

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 2: COMPOSITION INFORMATION

Chemical Family

Part A Resin:

Epoxy Resin: Proprietary Novalac Epoxy 98 - 100%

Part B Hardener:

Proprietary Organic Amines 98 - 100%

Contains No MDA

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Melting or Freezing Point: <30°F
Boiling Point: >300°F
Vapor Pressure (mm Hg) : N/A
Vapor Density (Air=1) : >1.
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : Resin 0.7 - 1.0/Hardener 0.8 - 1.0 gm./cc
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: *Resin:* Viscous Amber liquid/Sweet odor
Hardener: Amber transparent liquid/Ammoniaodor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable.
Hazardous Polymerization: Will Not Occur.

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.

Corrosive Material: Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

This Data Sheet Contains Propriety Information Provided by Cotronics Corp For The Purpose of Safety and Materials Handling.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

Durapot 861 Durapot 862 Durapot 863 Durapot 864
Durapot 865 Durapot 866 Durapot 867 Durapot 868

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: 861, 864, 865, 866, 867 - Amine Complex
862, 863, 868 - Acid Anhydride Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Off white opaque amber liquid/Amine odor
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 2 of 2

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

TRADE NAME

Cotronics Corp

Durapot 815

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture

Formula: N/A

Chemical Family: Refractory Ceramic Composition

Comments: N/A

Proprietary Silicate, Phosphate, Alumina, Zirconia, Bond

SECTION 2: COMPOSITION INFORMATION

<i>As Manufactured</i>	<i>WT. %</i>	<i>TVL/PEL</i> Respirable Nuisance
------------------------	--------------	------------------------------------

Part A

Dust	100	5 mg/cu m*
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*(1984-85 ACGIH TLV Booklet, Page 50) After Normal Use See Section 8

Part B

See page 2

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F) : N/A

Specific Gravity Range (H₂O = 1) : 0.9 - 3.1

Vapor Pressure (mm Hg.) : N/A

Vapor Density (Air=1) : N/A

Percent Volatile by Volume (%) : N/A

Solubility in Water: Insoluble

Evaporation Rate (=1) : N/A

Appearance/Odor: Coarse Aggregate with Fine Powdered Matrix.
No Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: **Flash Point (Method Used) :** **Flammable Limit:**

N/A N/A N/A

Unusual Fire and Explosive Hazards: **Special Fire Fighting Procedures:**

Lel Uel = N/A N/A

SECTION 5: HEALTH HAZARD DATA

Threshold Limit Value: None

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.

Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid) : None

Hazardous Decomposition Products: None

Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Sweep up spilled powder and dispose in approved industrial waste container.

Hose spilled neat cement paste with water, immediately. Cement is not water soluble after setting up.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respirators recommended for applications.

Ventilation: Local Exhaust: Dust

Mechanical (General) : Dust

Protective Gloves: Recommended

Eye Protection: Recommended

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: *Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.*

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85 **DATE REVISED:** 02/23/06

PROPRIETARY MATERIAL SAFETY DATA SHEET

DURAPOT 861A

Cotronics High Temp. High-Adhesion Epoxy

SECTION ONE: SUPPLIER INFORMATION

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 2: COMPOSITION INFORMATION

Chemical Family	CAS #	%
Part A Resin:		
Epoxy Resin	*	98 - 100%
Part B Hardener:		
Proprietary Organic Amines		98 - 100%
Contains No MDA		

* Proprietary Novalac Epoxy Resins

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Melting Or Freezing Point:	No data
Boiling Point:	No data
Vapor Pressure (mm Hg) :	No data
Vapor Density (Air=1) :	>1
Solubility In Water:	Negligible
% Volatile (By Weight) :	Negligible
Specific Gravity (Water=1) :	Resin 0.9 - 1.2/Hardener 0.9 - 1.2 gr./cc
Evaporation Rate (Butyl Acetate=1) :	<1
Appearance/Odor:	
Resin:	Viscous Amber liquid/Sweet odor
Hardener:	Amber transparent liquid/Ammonia odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	>295°F
Auto Ignition Temp:	N/A
Lower Explosion Limit (%) :	N/A
Upper Explosion Limit (%) :	N/A
Extinguishing Media:	Foam, CO ₂ , Dry
Chemical:	Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.

Ingestion: Harmful if swallowed.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable.

Hazardous Polymerization: Will not occur.

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.

Corrosive Material: Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics 900 Series One Component Ceramic Adhesives

901, 904, 907, 931C, 989

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture

Chemical Family: Mica, Silica, Alumina, Graphite Magnesia, or Zirconia

Chemical Formula: N/A

Refractory Ceramic Composition (See Type Above)

Proprietary Silicate, Phosphate, Alumina, Zirconia, Colloid Bond

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Refractory Ceramic Powder	20 - 40	5 mg/ Cu M
Refractory Ceramic Colloid	20 - 30	5 mg/ Cu M
Water	Balance	

All materials contained within are listed on the TSCA Inventory list
This product is compliant with the RoHS Directive..

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H ₂ O=1) :	1.5 - 3	1.2 - 2.5
Percent Volatile by Volume:	20 - 50	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H ₂ O=1) :	1	N/A
Appearance/Odor:	Creamy Paste/No Odor	Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	N/A
Flash Point (Method Used) :	N/A
Flammable Limit:	N/A
Unusual Fire And Explosive Hazards:	Lel = N/A
Special Fire Fighting Procedures:	Uel = N/A

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability:	Stable
Incompatibility (Materials to Avoid) :	None
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note liquid is mild acid.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended

Eye Protection: Recommended

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating or Smoking. Avoid Getting Powder in Body Openings, Including Cuts, Sores, Mouth, etc.

Precautions To Be Taken After Use And Upon Removal: This product as manufactured contains Silicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

$$\frac{1}{2}(\text{-----})\#$$

% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET
COTRONICS
901 CERAMIC ADHESIVE 3901 CERAMIC ADHESIVE

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina Silicate, Alumina, or Silicate
Chemical Formula: N/A
Comments: See Section 9

SECTION 2: COMPOSITION INFORMATION

<i>As Manufactured</i>	<i>WT. %</i>	<i>CAS</i>	<i>TVL/PEL</i>
A. Refractory Ceramic Fiber	20 - 30	142844-00-6	2F/cc
Refractory Ceramic Colloid	30 - 50	Proprietary	
Water	50 - 70	7732-18-5	
B. <i>After Normal Use</i>	See Section 8		

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	<i>As Supplied</i>	<i>Cured</i>
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O=1) :	1	0.5 - 0.8
Percent Volatile By Volume:	50 - 70*	N/A
(%) Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Creamy Paste No Odor.	Solid
Vapor Pressure (mm Hg.) :	17	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL= N/A
Special Fire Fighting Procedures: UEL= N/A

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DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 5: HEALTH HAZARD DATA

Primary Route of Entry: Inhalation, Ingestion and Skin Irritation.
Effects of Overexposure: Currently, there are no known chronic health effects in humans from long term exposure to refractory ceramic fibers. Animal studies to date are inconclusive. However, based on limited testing, refractory ceramic fibers are a suspected carcinogen in laboratory animals. The Thermal Insulation Manufacturers Association (TIMA) is sponsoring animal inhalation studies as well as epidemiological studies of workers in the industry. Until definite answers become available, strict adherence to recommended safe work practices described elsewhere in this MSDS is advised. This product contains minor amounts of binders which burn out during first heat up.
Emergency and First Aid Procedures: Terminate Exposure.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: N/A
Waste Disposal Method: Routine Housekeeping

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Dust respirator in compliance with OSHA STANDARD currently 29 CFR 1910.134 (NIOSH Approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).
Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.
Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.
Protective Gloves: Recommended.
Eye Protection: Goggles/Safety Glasses Recommended.
Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream.
Material does not appear on NTP and/or LAC lists of reports for Carcinogens

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken During First Exposure To Heat: Trace temporary organic binders will burn off during the first exposure to heat. (500-1000°F) carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and a small amount of formaldehyde may accompany binder burn-off. Use adequate ventilation or other precautions to eliminate vapors resulting from binder burn-off. Exposure to burn-off fumes may cause respiratory tract irritation.
Precautions To Be Taken After Use And Upon Removal: This product as manufactured is an alumina silicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

MATERIAL SAFETY DATA SHEET

TRADE NAME

COTRONICS 900 SERIES MACHINABLE CERAMICS

310 CERAMIC FOAM 914 MACHINABLE GLASS
902 MACHINABLE CERAMIC 915 MACHINABLE GLASS
56L MACHINABLE GRAPHITE 960 MACHINABLE ALUMINA
311 CERAMIC BLOCK 961 ALUMINA CERAMIC

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Refractory Ceramic Composition
Comments: N/A

Proprietary Alumina, Zirconia, Silica, Mica and Glass.

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

These products are solid materials produced by combining various raw materials (eg oxides, silicates, etc.) and supplied as Solid Ceramic Rods & Plates.

Dust from machining operations	Limits
	WT. % TVL/PEL
A. Respirable Nuisance Dust	100 5 mg/cu m

SECTION 3: PHYSICAL DATA

Boiling Point (°F): N/A
Specific Gravity Range (H₂O=1): 0.9 - 3.1
Vapor Pressure (mm Hg.): N/A
Vapor Density (Air=1): N/A
Percent Volatile By Volume (%): N/A
Solubility In Water: Insoluble
Evaporation Rate (=1): N/A
Appearance/Odor: Machinable Solid Ceramic Rods & Plates/No Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: The material is non flammable.
Flash Point (method Used): N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: N/A
Special Fire Fighting Procedures: N/A

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation of machining dusts.

Effects Of Overexposure: Nuisance dust may cause Nasal, Throat or Lung irritation or discomfort may aggravate Bronchial disorders. Slight dermatological irritation after prolonged skin contact.

Threshold Limit Value: None.

Emergency and First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

Note 310 and 902 contain Crystalline silica which is listed by IARC as a Group 1A carcinogen. NTP list this material as a reasonably anticipated carcinogen.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): None
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 7: CLEAN UP PROCEDURES

Steps To Be Taken To Clean Up Dust Generated:

Vacuum pick up of dust is recommended. A light spray of water may be used to minimize dust generation. Dispose in approved industrial waste container.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION FOR MACHINING

Respiratory Protection (Specify Type): Dust respirator in compliance with OSHA Standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.

Mechanical (General): Follow OSHA Standard 29 CFR 1910.94.

SECTION 9: SPECIAL CONSIDERATIONS

Note If the material is machined or if there is dust generated after 870°C, Silica can change crystal structure at elevated temperatures. Tridymite is formed at temperatures above 870°C and cristobalite is formed above 1470°C. Both of these materials have greater health hazards than quartz. Use appropriate NIOSH approved respirator in compliance with requirement 29 CFR 1910.134 if exposure exceeds PEL or TLV levels.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET
COTRONICS ADHESIVES
TRADE NAME

903 AC Grade Ceramic Adhesive

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: Base Material

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Refractory Ceramic Composition
Comments: N/A
Proprietary Phosphate, Alumina, Bond

SECTION 2: COMPOSITION INFORMATION

	WT. %	TVL/PEL	CAS
Phosphoric Acid	9-15	1 Mg/cm ³	7664-38-2
Chromium Compounds	>10	0.5 Mg/cm ³	1308-38-9
Refractory Ceramic	>70%		

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F): N/A
Specific Gravity Range (H₂O = 1): 0.9 - 3.1
Vapor Pressure (mm Hg.): N/A
Vapor Density (Air=1): N/A
Percent Volatile By Volume (%): N/A
Solubility In Water: Soluble
Evaporation Rate (H₂O=1): 1
Appearance/Odor: White or Tan Paste *(903 Green=Green Paste) No Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used): N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: Lel = N/A
Special Fire Fighting Procedures: Uel = N/A

*This product contains a chromium compound which is reportable under Section 313 of Title III of SARA and 40 CFR Part 372. For purposes of reporting environmental discharge, use 7% Chromium content.

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Powdered aluminum metal
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild acid.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): NIOSH approved* respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

Disclaimer: The information in this document is believed to be correct as of this date. The person using this product assumes the risk of insuring the suitability of its use and safety.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET
COTRONICS ADHESIVES
TRADE NAME

903HP Ceramic Adhesive
903 Green Ceramic Adhesive*

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Refractory Ceramic Composition
Comments: N/A
Proprietary Silicate, Phosphate, Alumina, Bond
All materials contained within are listed on the TSCA inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

A. All above	WT. %	TVL/PEL	CAS
Phosphoric Acid	>15	1 Mg/cm ³	7664-38-2
B. 903 Green* (Chromium Compounds are present only in 903 Green)			
Chromium Compounds	>10	0.5 Mg/cm ³	1308-38-9

All materials contained within are listed on the TOSCA Inventory list.

SECTION 3: PHYSICAL DATA

Boiling Point (°F): N/A
Specific Gravity Range (H₂O = 1): 0.9 - 3.1
Vapor Pressure (mm Hg.): N/A
Vapor Density (Air=1): N/A
Percent Volatile By Volume (%): N/A
Solubility In Water: Soluble
Evaporation Rate (H₂O=1): 1
Appearance/Odor: White or Tan Paste *(903 Green=Green Paste) No Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used): N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL= N/A
Special Fire Fighting Procedures: UEL= N/A

*This product contains a chromium compound which is reportable under Section 313 of Title III of SARA and 40 CFR Part 372. For purposes of reporting environmental discharge, use 7% Chromium content.

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Powdered aluminum metal
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild acid.
Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): NIOSH approved* respirators recommended for spray applications.
Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.
Protective Gloves: Recommended.
Eye Protection: Recommended.
Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.
Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

DISCLAIMER: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

DATE PREPARED: 11/01/85 **DATE REVISED:** 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET
COTRONICS ADHESIVES
TRADE NAME

903HP Ceramic Adhesive
904 HP Ceramic Adhesive

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Refractory Ceramic Composition
Comments: N/A
Proprietary Phosphate, Alumina, Zirconia, Bond

SECTION 2: COMPOSITION INFORMATION

A. All above	WT. %	TVL/PEL	CAS
Phosphoric Acid	>15	1 Mg/cm ³	7664-38-2

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F) : N/A
Specific Gravity Range (H₂O = 1) : 0.9 - 3.1
Vapor Pressure (mm Hg.) : N/A
Vapor Density (Air=1) : N/A
Percent Volatile By Volume (%) : N/A
Solubility In Water: Soluble
Evaporation Rate (H₂O=1) : 1
Appearance/Odor: White or Tan Paste/No Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: Lel = N/A
Special Fire Fighting Procedures: Uel = N/A

**This product contains a chromium compound which is reportable under Section 313 of Title III of SARA and 40 CFR Part 372. For purposes of reporting environmental discharge, use 7% Chromium content.*

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid) : Powdered aluminum metal
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild acid.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: *Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.*

**(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).*

Disclaimer: The information in this document is believed to be correct as of this date. The person using this product assumes the risk of insuring the suitability of its use and safety.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics Ceramic Adhesives

Part A

905 Quartz Ceramic Adhesive 920 Alumina Ceramic Adhesive
906 Magnesia Ceramic Adhesive 944 Silica Ceramic Adhesive
908 Alumina Ceramic Adhesive 7030 Silica Ceramic Adhesive
919 Zirconia Ceramic Adhesive

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina, Quartz, Magnesia, Zirconia, or Silica.
Chemical Formula: N/A
Part A: Powder
Refractory Ceramic Composition (See Type Above)
Part B: Liquid Binder or Water (See page 2)
Proprietary Silicate, Phosphate, Alumina, Zirconia, Colloid Bond

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	TVL/PEL
Part A: Powder Refractory Ceramic Powder	100	5 mg/ Cu M
Part B: Liquid Binder or Water Refractory Ceramic Colloid	0 - 30	N/A
Water	0 - 100	

B. After Normal Use See Section 8

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O=1) :	1.5 - 3	1.2 - 2.5
Percent Volatile By Volume:	20 - 50	N/A
(%) Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Creamy Paste/No Odor	Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire And Explosive Hazards: Lel = N/A
Special Fire Fighting Procedures: Uel = N/A

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid) : Aluminum metal powder.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild acid.
Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* Respirators recommended for spray applications.
Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.
Protective Gloves: Recommended
Eye Protection: Recommended
Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storing: Keep container closed and avoid getting wet until ready to use.
Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

RESBOND 907

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Family: Aluminosilicate, Alumina, Silicate
Chemical Formula: N/A
Comments: See Section 9

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %
Refractory Ceramics	50-70
Refractory Colloid*	20-30
Water	10-20

B. After Normal Use See Section 8

* (Water Base)

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O = 1) :	1	0.5 - 0.8
Percent Volatile by Volume:	70 - 80	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O = 1) :	1	N/A
Appearance and Odor:	Creamy Paste, No Odor.	Solid
Vapor Pressure (mm Hg.) :	17	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact. Can be irritating to the eyes.

Delayed Effects: No known chronic hazards. Not listed by OSHA, NTP or IARC as a carcinogen.

DATE PREPARED: 11/01/85 **DATE REVISED:** 02/23/06

SECTION 6: EMERGENCY FIRST AID PROCEDURES

Emergency and First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 7: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: If spilled mix with water and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 9: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended

Eye Protection: Recommended

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 10: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storing:

Keep container closed. Store away from excessive heat (eg. Steam pipes, radiators, from sources of ignition and from reactive materials).

Other Precautions: Wash hands thoroughly before eating or smoking.

Avoid getting material in body openings including cuts, sores, mouth, etc.

Precautions To Be Taken After Use And Upon Removal:

This product as manufactured contains an aluminosilicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula:

$$\frac{1}{2}(\text{-----})\# \\ \% \text{ Respirable quartz} + 2$$

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

TRADE NAME

Part B

905 Quartz Ceramic Adhesive 920 Alumina Ceramic Adhesive
906 Magnesia Ceramic Adhesive 944 Silica Ceramic Adhesive
908 Alumina Ceramic Adhesive 7030 Silica Ceramic Adhesive
919 Zirconia Ceramic Adhesive

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Family: Alumina, Quartz, Magnesia, Zirconia, or Silica

Chemical Family: Refractory Ceramic Colloid

Proprietary Silicate, Phosphate, Alumina, Zirconia, Colloid Bond.

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Liquid Binder or Thinner		
Refractory Ceramic Colloid	20 - 50	N/A
Water	50 - 80	
B. After Normal Use See Section 8		
C. Mist or Dried dust from spraying (Not formed in normal use)	30 - 50	10 mg/m ³

All Materials contained within are located on the TSCA Inventory List
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	As Cured
Boiling Point (§F) :	212°F	N/A
Specific Gravity (H₂O=1) :	1.2 - 1.4	1.2-2.5
Vapor Pressure (mm Hg.) :	0.2-1.2	N/A
Vapor Density (Air=1) :	>1	N/A
Percent Volatile By Volume:	20-50	N/A
Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Clear or Opalescent liquid No Odor	Solid No Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion, Eyes and Skin Irritation.

Effects Of Overexposure: Long term overexposure to inhalation of mists or dust of dried down particles may cause tissue response in the lung (Pneumoconiosis).

Emergency & First Aid Procedures: Terminate exposure. Flush eyes with water for 15 minutes. Call a doctor

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Routine Housekeeping

Waste Disposal Method: N/A

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respiratory protection is not normally needed since the volatility and toxicity are low. If significant mists or aerosols are generated, wear a NIOSH approved or equivalent respirator, (ANSI Z-88.2, 1980 for requirements and selection).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.

Protective Gloves: Recommended.

Eye Protection: Goggles/Safety Glasses Recommended.

Other Protective Equipment: As required to meet applicable OSHA Standards .

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken After Use And Upon Removal: This product as manufactured may contain a Silicate. Which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

$$\frac{1}{2}(\text{-----})\#$$

% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET

RESBOND 907GF

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Family: Aluminosilicate, Alumina or Silicate
Chemical Formula: N/A
Comments: See Section 9

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	TVL/PEL
Refractory Ceramics	50-70	
Refractory Colloid*	20-30	
Water	10-20	

B. After Normal Use See Section 8

* (Water Base)

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O = 1) :	1	0.5 - 0.8
Percent Volatile by Volume:	70 - 80	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O = 1) :	1	N/A
Appearance and Odor:	Creamy Paste No Odor.	Solid
Vapor Pressure (mm Hg.) :	17	N/A

VOLATILE ORGANIC CONTENT VOC = 0

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire And Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL= N/A

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SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion And Skin Irritation.
Emergency and First Aid Procedures: Flush eyes with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult a physician immediately.
Effects Of Overexposure:
Currently, studies have shown that signs of slight dermatological irritation have occurred after prolonged skin contact. This product contains minor amounts of binders which burn out during first heat up. Emergency and First Aid Procedures Terminate Exposure.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: N/A
Waste Disposal Method: Routine Housekeeping

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) Dust respirator in compliance with OSHA Standard currently 29 CFR 1910.134 (NIOSH Approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).
Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94
Mechanical (General): Follow OSHA Standard 29 CFR 1910.94
Protective Gloves: Recommended
Eye Protection: Goggles/Safety Glasses Recommended
Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream
Material does not appear on NTP and/or LAC lists of reports for Carcinogens

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken During First Exposure To Heat:
Trace temporary organic binders will burn off during the first exposure to heat. (500 - 1000°F) carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and a small amount of formaldehyde may accompany binder burn-off. Use adequate ventilation or other precautions to eliminate vapors resulting from binder burn-off. Exposure to burn-off fumes may cause respiratory tract irritation.
Precautions To Be Taken After Use And Upon Removal:
This product as manufactured contains an aluminosilicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS

907 TS THREADSEALER

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: Proprietary, Mixture
Chemical Family : Modified Silicic Acid

SECTION 2: COMPOSITION INFORMATION

Boiling Point: N/A
Vapor Density(Air=1) : N/A
Solubility In Water: Soluble
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.3 - 1.5
Vapor Pressure (mm Hg) : No Data
Melting Or Freezing Point: No Data
Appearance Odor: Viscous Liquid. Blue, Red, Green or Gold
Solids Content: 30 - 50% By Weight Dispersed Solids
Evaporation Rate (Butyl Acetate=100, Non Aq. Liquids Only) : N/A
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : No Data
Upper Explosion Limit (%) : No Data
Extinguishing Media: N/A

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Irritating to eyes.
Skin Contact: Substance is moderately irritating to the skin.
Ingestion: Causes Irritation to esophagus and stomach.
Delayed Effects: No Known chronic hazards. Not listed by OSHA, NTP, or IARC as a carcinogen.
Physical Hazards: Dries to form glassy film which can cut skin. Spills are slippery.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable.
Hazardous Polymerization: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

High pH of material can be harmful to aquatic life. If Spilled mix with water to neutralize fluid. If small quantity mop and flush to sewer with plenty of water. If large quantity isolate dike and store discharged material. Observe environmental protection regulations.
Waste Disposal Methods: Neutralize with dilute acid and landfill solids according to local state, and federal regulations, Flush neutral liquid to sewer with plenty of water.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Corrosive to copper and brass on long storage.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Precautions To Be Taken After Use And Upon Removal:
This product as manufactured contains an aluminosilicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

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HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

COTRONICS CORPORATION MATERIAL SAFETY DATA SHEET

RESCOR 916 BORON NITRIDE

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name and Synonyms: Boron Nitride
Formula: BN
Chemical Family: Refract
Comments: N/A
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Component	CAS #	WT. %	ACGIH (TVL)	OSHA (PEL)
Boron Nitride	10043-11-5	>95 %	10 Total	15 mg/m ³ Total 5 mg/m ³ Respirable
Boric Oxide	1303-86-2	< 5 %	10 Total	15 mg/m ³ Total 5 mg/m ³ Respirable

SECTION 3: PHYSICAL DATA

Boiling Point (°F) : N/A
Specific Gravity Range (H₂O=1) : 0.3 -2.2
Vapor Pressure (mm Hg.) : N/A
Vapor Density (Air=1) : N/A
Percent Volatile By Volume (%) : N/A
Solubility In Water: Insoluble
Evaporation Rate (=1) : N/A
Appearance/Odor: Machinable Solid Ceramic Rods, Plates Bars
No Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A
Product is non flammable Product in or near fire should be cooled with a water spray or fog. A self contained breathing apparatus and full fire fighting protective equipment should be worn for combating all fires.

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Product is opaque white shapes with no odor. Dusts may cause eye, skin and respiratory tract irritation. Wear appropriate protective equipment.
Threshold Limit Value: None.
Emergency And First Aid Procedures: Keep individuals not involved in the appropriate containers for reuse or disposal. Product is inert and is not expected to present an up out of the area.

Chronic and Carcinogenicity: Prolonged exposure to high concentrations of the product may cause a benign pneumoconiosis The product is not known to be a carcinogen or suspected carcinogen. May aggravate pre existing lung and skin disorders.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eyes: Flush with tepid water for at least 20 minutes holding eyelids wide open. Seek medical attention if irritation develops.
Skin Contact: Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: Not expected to be important route of entry into the body. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid) : Strong Oxidizing Agents
Hazardous Decomposition Products: None that are known (stable to 3000°F)
Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released or Spilled: Pick up with suitable implements and return to original or other appropriate container. If not reusable place in DOT containers for disposal. **Waste Disposal Method:** Approved industrial waste disposal means. Product is considered to be non hazardous.

SECTION 9: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Dust respirator in compliance with OSHA Standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).
Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.
Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.

Toxicological Information Soluble Boron Nitride compounds are known to have a toxic effect on the central nervous system at high exposure levels. The Boron Compounds present in this product are present in a insoluble inert matrix and are not expected to be bio-available.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

DISCLAIMER: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

DATE PREPARED: 11/01/85 **DATE REVISED:** 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET
COTRONICS CORPORATION
918 Ceramic Adhesive

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name: N/A Mixture
Formula: N/A
Comments: Proprietary Alumina, Silicate Bond

SECTION 2: COMPOSITION INFORMATION

Chemical:	CAS #:	TLV (TWA) :	PEL:	Wt %
Silica (Hazardous)	14808-60-7	.1 mg/m3	.1 mg/m3	< 20 %

<i>Other Mixed Ceramic Oxides</i> (Respirable Nuisance Dust):	N/A	5.0 mg/m3	10 mg/m3	< 85 %
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*Note silica is listed on IARC as a carcinogen.

**ACGIH TLV Booklet (see below).

*All materials contained are listed on the EPA TSCA Inventory List.
This product is compliant with the RoHS Directive.
DOT I.D. Number: Not Regulated.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance/Odor:	White Powder/No odor
Melting/Freezing Point:	N/A
% Volatile (By Volume) :	N/A
Boiling Point:	N/A
Specific Gravity (Water=1) :	1.0 - 2.0
Vapor Pressure (mm Hg) :	NA
Evaporation Rate:	N/A
Vapor Density (Air=1) :	N/A
Solubility In Water:	Less than 15%

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	N/A
Auto Ignition Temp:	N/A
Lower Explosion Limit (%) :	N/A
Upper Explosion Limit (%) :	N/A
Special Fire Fighting Procedures:	N/A
Unusual Fire and Explosion Hazards:	N/A
Extinguishing Media:	Water, Carbon Dioxide, Dry Chemical, and Foam

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Overexposure: Slight dermatological irritation after prolonged skin contact.
Eye and Skin Contact: Flush eyes with a copious amount of water. Get immediate attention for eyes. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability:	Stable
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Will not occur
Conditions To Avoid:	N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Steps to be Taken if Material Is Released or Spilled: Sweep up spilled powder and dispose (see below). Respiratory protection should be worn**. Flush residue with water and dispose. **Waste Disposal Methods:** Material can be disposed of in landfill solids according to local state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter.
Respiratory Protection: NIOSH approved*
Protective Gloves: Recommended.
Eye Protection: Recommended.
Other Protective Equipment: Rubber Aprons or Lab Coats to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Keep Container Closed. Keep Product From Moisture Prior To Use.
Other Precautions: Wash hands thoroughly before eating or smoking. Avoid getting powder in body openings, including cuts, sores, mouth, etc.
Precautions To Be Taken After Use And Upon Removal:
This product as manufactured contains an aluminosilicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: $10 \text{ mg/cu m} \times \frac{1}{2}(\text{-----})\#$
 $\% \text{ Respirable quartz} + 2$

** (Reference 1984-85 ACGIH TLV Booklet, page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad of cartridge(s)).

Disclaimer: the information supplied is not to be taken as a warranty or representation for which cotronics corp. Assumes legal responsibility. It is offered solely for your consideration, investigation and verification. All risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

PROPRIETARY MATERIAL SAFETY DATA SHEET COTRONICS CORPORATION

920 Ceramic Adhesive

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name: N/A Mixture
Formula: N/A
Comments: Proprietary Phosphate, Alumina Bond

SECTION 2: COMPOSITION INFORMATION

Chemical:	CAS #:	TLV (TWA) :	PEL:	WT%:
Alumina Oxide	1344-28-1	10 mg/m3	5 mg/m3	<90
Other Mixed Ceramic Oxides (Respirable Nuisance Dust)	N/A	10 mg/m3	5 mg/m3	<20

** ACGIH TLV Booklet (See Below).

*All materials contained are listed on the EPA TSCA Inventory List.
This product is compliant with the RoHS Directive.
DOT I.D Number: Not Regulated.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance/Odor: White Powder/No Odor
Melting/Freezing Point: N/A
% Volatile (By Volume) : N/A
Boiling Point: N/A
Specific Gravity (Water=1) : 1.5 - 2.5
Vapor Pressure (mm Hg) : N/A
Evaporation Rate: N/A
Vapor Density (Air=1) : N/A
Solubility In Water: Less than 10%

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: N/A
Special Fire Fighting Procedures: N/A
Unusual Fire and Explosion Hazards: N/A

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Overexposure: Slight dermatological irritation after prolonged skin contact.
Eye and Skin Contact: Flush eyes with a copious amount of water. Get immediate attention for eyes. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Hazardous Decomposition Products: None
Hazardous Polymerization: Will not occur
Conditions To Avoid: N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken If Material Is Released Or Spilled: Sweep up spilled powder and dispose (see below). Respiratory protection should be worn**. Flush residue with water and dispose.
Waste Disposal Methods: Material can be disposed of in landfill solids according to local state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter.
Respiratory Protection: NIOSH approved*.
Protective Gloves: Recommended.
Eye Protection: Recommended.
Other Protective Equipment: Rubber Aprons or Lab Coats to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Keep container closed. Keep product from moisture prior to use.
Other Precautions: Wash hands thoroughly before eating or smoking. Avoid getting powder in body openings, including cuts, sores, mouth, etc.

** (Reference 1984-85 ACGIH TLV Booklet, page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face piece respirator with appropriate filter pad of cartridge (s)).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

931 Graphite Adhesive 931 Adhesive Powder
931 Thinner Binder

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996
This product is compliant with the RoHS Directive.

SECTION ONE:

Chemical Name and Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Proprietary Graphite Adhesive
Comments: N/A

SECTION 2: COMPOSITION INFORMATION

Liquid:

Appearance Odor: Clear and colorless; pungent odor.
Melting Or Freezing Point: No data.
Boiling Point: 170°C @ 750 mm.
Vapor Pressure (mm Hg) : 1 mm @ 32°C.
% Volatile By Volume: N/A.
Vapor Density (Air=1) : N/A.
Solubility In Water: Soluble.
Specific Gravity (Water=1) : 1.1
Evaporation Rate (=1) : N/A.

Powder:

Boiling Point (°F) : N/A.
Specific Gravity (H₂O=1) : >1.
Vapor Pressure (mm Hg.) : N/A.
% Volatile By Volume: N/A.
Vapor Density (Air=1) : N/A.
Evaporation Rate (=1) : N/A.
Solubility In Water: Insoluble.

SECTION 3: HAZARD INGREDIENTS

Material:	Liquid Thinner	CAS #:	%:	TLV:
Furfuryl Alcohol		98-00-0	>85	10 ppm
Material: Graphite Adhesive				
Graphite Resin		7782-42-5	>60	10 mg/m3
Phenolic Resin		9003-35-4	<20	N/A
Formaldehyde		50-00-0	<0.015	1 ppm

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) : 167°F (Open Cup).
Flammable Limits % By Volume: LEL = 1.8 UEL = 16.3.
Extinguishing Media: Dry Chemical, CO₂, Water, Foam.
Special Fire Fighting Procedures: Wear Self Contained Breathing Apparatus.
Unusual Fire And Explosion Hazards: Moderate fire hazard when exposed to heat and react with oxidizing materials. Fire can generate hazardous pitch and a phenol vapors.

SECTION 5: HEALTH HAZARD DATA

Liquid:

Threshold Limit Value: 5 ppm
Effects Of Overexposure: Toxic when ingested, inhaled or absorbed through the skin.
Emergency And First Aid Procedures: If ingested, induce vomiting and call physician.
Eye And Skin Contact: Flush with water for 15 minutes. Get prompt medical attention. Wash exposed skin thoroughly with soap and water. Remove and wash clothing before reuse.

Powder:

Threshold Limit Value: 1 ppm
Effects Of Overexposure: Contains formaldehyde which can cause cancer in laboratory animals. Powder is a skin and eye irritant. There is minimum risk when used with proper ventilation.
Emergency And First Aid Procedure: Follow above procedure.

SECTION 6: REACTIVITY DATA

Stability: Stable.
Conditions To Avoid: Avoid contact with strong acids or oxidants.
Compatibility (Materials to Avoid) : Reacts violently with strong acids.
Hazardous Decomposition Products: CO and CO₂ Phenol vapors and pitch fumes.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Handling And Storage: Avoid contact with skin or eyes; do not breathe vapors. Use only with adequate ventilation do not exceed established OSHA exposure limits for furfuryl alcohol. Do not take internally.
Other Precautions: This material is combustible do not use or store near heat, sparks or open flames.
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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

931C Graphite Adhesive

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996
This product is compliant with the RoHS Directive.

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Refractory Ceramic Composition, Proprietary Silicate bond

SECTION 2: COMPOSITION INFORMATION

Boiling Point (°F) : N/A
Specific Gravity (H₂O=1) : 1.3 - 1.5
Vapor Pressure (mm Hg.) : N/A
% Volatile By Volume: N/A
Vapor Density (Air=1) : N/A
Evaporation Rate (=1) : N/A
Solubility In Water: Insoluble
Appearance & Odor: Smooth Creamy Grey Liquid. No Odor.

SECTION 3: HAZARDOUS INGREDIENTS

A. As Manufactured	WT %:	TLV/PEL
Graphite (CAS #7782-42-5)	<40%	5 mg/cu m*
B. After Normal Use	See Section One	

*(1984-85 ACGIH TLV Booklet Page 50).

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) : N/A
Flammable Limits % By Volume: LEL = N/A UEL = N/A
Extinguishing Media: Dry Chemical, CO₂, Water, Foam.
Special Fire Fighting Procedures: N/A

SECTION 5: HEALTH HAZARD DATA

Emergency and First Aid Procedures:

Eye and Skin Contact: Flush with water for 15 minutes.get prompt medical attention. Wash exposed skin thoroughly with soap and water. Remove and wash clothing before re-use. If swallowed consult physician immediately.

Effects Of Overexposure:

Slight dermatological irritation after prolonged skin contact.

SECTION 6: REACTIVITY DATA

Stability: Stable.
Compatibility (Materials to Avoid) : Powdered Aluminum Metal
Hazardous Decomposition Products: CO and CO₂
Hazardous Polymerization: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse.

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Local exhaust Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter if the exhaust is discharges into the workplace.

Respiratory Protection: . Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Handling And Storage: Avoid contact with skin or eyes. Use only with adequate ventilation . Do not take internally.

Other Precautions: Wash hands thoroughly before eating or smoking avoid getting powder in body openings including cuts, sores, mouth, etc.

Precautions To Be Taken After Use And Upon Removal: This product as manufactured may contain a Silicate. Which could transform upon heating to mullet and crystalalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

$\frac{1}{2}$ (-----)#
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CRF 1910.134(NIOSH approved, air purifying half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 5/11/92

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

PROPRIETARY MATERIAL SAFETY DATA SHEET COTRONICS CORPORATION

931P Graphite Putty

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996
This product is compliant with the RoHS Directive.

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Proprietary Graphite Adhesive Silicate Bond

SECTION 2: HAZARD INGREDIENTS

	CAS #:	%:	TLV*
Graphite	7782-42-5	25-35	10 mg/m3

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance/Odor: Grey Putty. No odor.
Melting or Freezing Point: N/A.
Boiling Point: 170 °C @ 750 mm.
Vapor Pressure (mm Hg) : 1 mm @ 32°C.
% Volatile By Volume: N/A.
Vapor Density (Air=1) : N/A.
Solubility In Water: Soluble.
Specific Gravity (Water=1) : 1.4-1.6
Evaporation Rate (=1) : N/A.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) : 167°F (Open Cup).
Flammable Limits % By Volume: LEL = 1.8
UEL = 16.3
Extinguishing Media: Dry Chemical, CO₂, Water, Foam.
Special Fire Fighting Procedures: Wear Self Contained Breathing Apparatus.
Unusual Fire And Explosion Hazards: Moderate fire hazard when exposed to heat and react with oxidizing materials. Fire can generate a hazardous pitch and phenol vapors.

SECTION 5: HEALTH HAZARD DATA

Emergency and First Aid Procedures:

Eye and Skin Contact: Flush with water for 15 minutes. Get prompt medical attention. Wash exposed skin thoroughly with soap and water. Remove and wash clothing before re-use.

Ingestion If swallowed consult physician immediately.

Effects Of Overexposure:

Slight dermatological irritation after prolonged skin contact.

SECTION 6: REACTIVITY DATA

Stability: Stable.
Conditions To Avoid: Avoid contact with strong acids or oxidants.
Compatibility (Materials to Avoid) : Reacts violently with strong acids.
Hazardous Decomposition Products: CO and CO₂ Phenol vapors and pitch fumes.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Handling And Storage: Avoid contact with skin or eyes . Use only with adequate ventilation . Do not take internally.

Other Precautions: Wash hands thoroughly before eating or smoking avoid getting powder in body openings including cuts, sores, mouth, etc.

Precautions To Be Taken After Use And Upon Removal: This product as manufactured may contain a Silicate. Which could transform upon heating to mullet and crystalalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

$\frac{1}{2}$ (-----)#
% Respirable quartz + 2

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DATE PREPARED: 5/11/92

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics Ceramic Adhesives

Resbond 940 Zirconia Ceramic Adhesive
Resbond 940HT Alumina Ceramic Adhesive
Resbond 940LE Silica Ceramic Adhesive
Resbond 940HE High Expansion Adhesive
Resbond 940SS Stainless Steel
Part 1 BASE (POWDER)

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina, Zirconia or Silica
Chemical Formula: N/A
Part A: Powder
Refractory Ceramic Composition (Aluminum, Zirconia, Stainless 316 or Silica)
Part B: Liquid Binder or Water (See page 2)
Proprietary Silicate, Alumina, Zirconia, Colloid Bond

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	TVL/PEL
Part A: Powder		
Refractory Ceramic Powder	100	5 mg/ Cu M
940SS 316 Stainless Steel (Alloy)	Fe 7439-89-6 Mo 7439-98-7 Ch 7440-47-3 Ni 7440-02-0	90 -100 (total alloy content)
Part B: Liquid Binder or Water		
Refractory Ceramic Colloid	0 - 30	N/A
Water	0 - 100	

B. After Normal Use See Section 8

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O=1) :	1.5 - 3	1.2 - 2.5
Percent Volatile By Volume:	20 - 50	N/A
(%) Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Creamy Paste/No Odor	Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid) : Aluminum metal powder.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild acid.
Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* Respirators recommended for spray applications.
Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.
Protective Gloves: Recommended
Eye Protection: Recommended
Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.
Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85 **DATE REVISED:** 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

TRADE NAME

Resbond 940 940HT 940LE 940HE 940SS

Part 2 ACTIVATOR (LIQUID)

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Family: Alumina, Quartz, Zirconia, or Silica

Chemical Family: Refractory Ceramic Colloid, Proprietary Silicate, Colloid Bond.

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Liquid Binder or Thinner		
Refractory Ceramic Colloid	20 - 50	N/A
Water	50 - 80	
B. After Normal Use See Section 8		
C. Mist or Dried dust from spraying (Not formed in normal use)	30 - 50	10 mg/m ³

All Materials contained within are located on the TOSCA Inventory List
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	As Cured
Boiling Point (§F) :	212°F	N/A
Specific Gravity (H₂O=1) :	1.2 - 1.4	1.2-2.5
Vapor Pressure (mm Hg.) :	0.2-1.2	N/A
Vapor Density (Air=1) :	>1	N/A
Percent Volatile By Volume:	20-50	N/A
Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Clear or Opalescent liquid No Odor	Solid No Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	N/A
Flash Point (Method Used) :	N/A
Flammable Limit:	N/A
Unusual Fire and Explosive Hazards:	LEL = N/A
Special Fire Fighting Procedures:	UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion, Eyes and Skin Irritation.

Effects Of Overexposure: Long term overexposure to inhalation of mists or dust of dried down particles may cause tissue response in the lung (Pneumoconiosis).

Emergency & First Aid Procedures: Terminate exposure. Flush eyes with water for 15 minutes. Call a doctor

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Routine Housekeeping

Waste Disposal Method: N/A

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respiratory protection is not normally needed since the volatility and toxicity are low. If significant mists or aerosols are generated, wear a NIOSH approved or equivalent respirator, (ANSI Z-88.2, 1980 for requirements and selection).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.

Protective Gloves: Recommended.

Eye Protection: Goggles/Safety Glasses Recommended.

Other Protective Equipment: As required to meet applicable OSHA Standards .

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken After Use And Upon Removal: This product as manufactured is a Silicate could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION DURABOND 950 Aluminum 952 Nickel 954 Stainless DURABOND 950FS-952FS-954FS ADHESIVES & FAST SET PUTTIES

Part 1 Powder

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996
This product is compliant with the RoHS Directive.

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Comments: N/A
Chemical Family: Base: Proprietary Aluminum or Stainless Composition
Binder: Proprietary Silicate Alumina Bond

SECTION 2: COMPOSITION INFORMATION

Part A Base	CAS#	WT. %	TVL / PEL
950 Aluminum	7429-90-5	90 - 100	
952 Nickel	744-002-0	90 - 100	
954 316 Stainless Steel (Alloy)	Fe 7439-89-6 Mo 7439-98-7 Ch 7440-47-3 Ni 7440-02-0	90 -100 (total alloy content)	
Proprietary Refractory Oxide		0 - 10	3 mg/m ³ / 5 mg/m ³

Part B Binders (950, 952, 954) See Page 2

SECTION 3: PHYSICAL DATA

	Liquid	As Cured
Boiling Point (°F):	212°F as mixed	N/A
Specific Gravity Range (H₂O=1):	Liquid part 1.0,	1.5-2.5
Vapor Pressure (mm Hg.):	Liquid phase 760 @ 212°F powder N/A	N/A
Vapor Density (Air=1):	N/A	N/A
Volatile By Volume (%):	Liquid phase 10 - 30	N/A
Solubility in Water:	Liquid phase soluble	Insoluble
Evaporation Rate (=1):	N/A	N/A
Appearance/Odor:	Base powders, No odor Activator clear liquid, No Odor	Solid, No Odor
Volatile Constituent:	Water	Solid

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used): N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

Sara Section 313 Supplier Notification: This product contains the following chemical (s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1968 and of 40 CFR 372: Nickel, Chromium. Refer to the Hazardous Ingredients section of this MSDS for the appropriate CAS numbers.

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

SECTION 5: HEALTH HAZARD DATA

Nickel: LD50: Oral Rat > 5000 mg/kg.

IARC found there was inadequate evidence that metallic nickel or chromium is carcinogenic to humans but since there was sufficient evidence that is carcinogenic to animals, IARC concluded that metallic nickel and chromium is possibly carcinogenic to humans. Epidemiological studies of workers exposed to nickel powder and to dust and fumes generated in the production of nickel alloys and of stainless steel have not indicated the presence of a significant respiratory cancer hazard.

Effects Of Overexposure: *Skin Contact:* Repeated contact with metallic nickel can cause nickel sensitivity and allergic skin rashes.

Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials To Avoid): N/A
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powders and dispose in approved industrial waste container. Hose spilled liquids or mixed adhesive with water, immediately. 950,952, 954 adhesives are not water soluble after drying.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): NIOSH approved*. Respirators recommended for spray applications.

Ventilation: *Local Exhaust:* Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace. **Protective Gloves:** Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: wash hands thoroughly before eating or smoking. Avoid getting powder in body openings, including cuts, sores, mouth, etc. Use with adequate ventilation. Avoid repeated skin contact. Wash skin thoroughly after handling.

* (Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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Date Prepared 01/02/89

Date Revised 02/23/06

MATERIAL SAFETY DATA SHEET

TRADE NAME

Durabond Adhesives Part B Binder

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina, Phosphate or Silica
Chemical Family: Refractory Ceramic Colloid
Proprietary Silicate, Phosphate, Alumina, Colloid Bond.

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Liquid Binder or Thinner		
Refractory Ceramic Colloid	20 - 50	N/A
Water	50 - 80	
B. After Normal Use See Section 8		
C. Mist or Dried dust from spraying	30 - 50	10 mg/m ³
(Not formed in normal use)		

All Materials contained within are located on the TSCA Inventory List
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	As Cured
Boiling Point (°F) :	212°F	N/A
Specific Gravity (H₂O=1) :	1.2 - 1.4	1.2-2.5
Vapor Pressure (mm Hg.) :	0.2-1.2	N/A
Vapor Density (Air=1) :	>1	N/A
Percent Volatile By Volume:	20-50	N/A
Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Clear or Opalescent liquid /No Odor	Solid No Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion, Eyes and Skin Irritation.
Effects Of Overexposure: Long term overexposure to inhalation of mists or dust of dried down particles may cause tissue response in the lung (Pneumoconiosis).
Emergency & First Aid Procedures: Terminate exposure. Flush eyes with water for 15 minutes. Call a doctor

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Routine Housekeeping
Waste Disposal Method: N/A

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respiratory protection is not normally needed since the volatility and toxicity are low. If significant mists or aerosols are generated, wear a NIOSH approved or equivalent respirator, (ANSI Z-88.2, 1980 for requirements and selection).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.

Protective Gloves: Recommended.

Eye Protection: Goggles/Safety Glasses Recommended.

Other Protective Equipment: As required to meet applicable OSHA Standards .

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be Taken After Use And Upon Removal: This product as manufactured contains a Silicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

$\frac{1}{2}$ (-----)#
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 2 of 2

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION DURABOND 950 Aluminum 952 Nickel 954 Stainless DURABOND 950FS-952FS-954FS ADHESIVES & FAST SET PUTTIES

Part 1 Powder

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996
This product is compliant with the RoHS Directive.

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Comments: N/A
Chemical Family: Base: Proprietary Aluminum or Stainless Composition
Binder: Proprietary Silicate Alumina Bond

SECTION 2: COMPOSITION INFORMATION

Part A Base	CAS#	WT. %:	TVL/PEL:
950 Aluminum	7429-90-5	90 - 100	
952 Nickel	744-002-0	90 - 100	
954 316 Stainless Steel (Alloy)	Fe 7439-89-6 Mo 7439-98-7 Ch 7440-47-3 Ni 7440-02-0	90 -100 (total alloy content)	
Proprietary Refractory Oxide		0 - 10	2F/cc

*(1984-85 ACGIH TLV Booklet, Page 50)

Part B Binders (950, 952, 954) See Page 2

SECTION 3: PHYSICAL DATA

	Liquid	As Cured
Boiling Point (°F):	212°F as mixed	N/A
Specific Gravity Range (H₂O=1):	Liquid part 1.0,	1.5-2.5
Vapor Pressure (mm Hg.):	Liquid phase 760 @ 212°F powder N/A	N/A
Vapor Density (Air=1):	N/A	N/A
Volatile By Volume (%):	Liquid phase 10 - 30	N/A
Solubility in Water:	Liquid phase soluble	Insoluble
Evaporation Rate (=1):	N/A	N/A
Appearance/Odor:	Base powders, No odor Activator clear liquid, No Odor	Solid, No Odor
Volatile Constituent:	Water	Solid

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used): N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

Sara Section 313 Supplier Notification: This product contains the following chemical (s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1968 and of 40 CFR 372: Nickel, Chromium. Refer to the Hazardous Ingredients section of this MSDS for the appropriate CAS numbers.

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

SECTION 5: HEALTH HAZARD DATA

Nickel: LD50: Oral Rat > 5000 mg/kg.

IARC found there was inadequate evidence that metallic nickel or chromium is carcinogenic to humans but since there was sufficient evidence that is carcinogenic to animals, IARC concluded that metallic nickel and chromium is possibly carcinogenic to humans. Epidemiological studies of workers exposed to nickel powder and to dust and fumes generated in the production of nickel alloys and of stainless steel have not indicated the presence of a significant respiratory cancer hazard.

Effects Of Overexposure: *Skin Contact:* Repeated contact with metallic nickel can cause nickel sensitivity and allergic skin rashes.

Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials To Avoid): N/A
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powders and dispose in approved industrial waste container. Hose spilled liquids or mixed adhesive with water, immediately. 950,952, 954 adhesives are not water soluble after drying.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): NIOSH approved*. Respirators recommended for spray applications.

Ventilation: *Local Exhaust:* Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace. **Protective Gloves:** Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: wash hands thoroughly before eating or smoking. Avoid getting powder in body openings, including cuts, sores, mouth, etc. Use with adequate ventilation. Avoid repeated skin contact. Wash skin thoroughly after handling.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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Date Prepared 01/02/89

Date Revised 02/23/06

MATERIAL SAFETY DATA SHEET

TRADE NAME

Durabond Adhesives Part B Binder

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina, Phosphate or Silica
Chemical Family: Refractory Ceramic Colloid
Proprietary Silicate, Phosphate, Alumina, Colloid Bond.

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Liquid Binder or Thinner		
Refractory Ceramic Colloid	20 - 50	N/A
Water	50 - 80	
B. After Normal Use See Section 8		
C. Mist or Dried dust from spraying	30 - 50	10 mg/m ³
(Not formed in normal use)		

All Materials contained within are located on the TSCA Inventory List
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	As Cured
Boiling Point (°F) :	212°F	N/A
Specific Gravity (H₂O=1) :	1.2 - 1.4	1.2-2.5
Vapor Pressure (mm Hg.) :	0.2-1.2	N/A
Vapor Density (Air=1) :	>1	N/A
Percent Volatile By Volume:	20-50	N/A
Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Clear or Opalescent liquid /No Odor	Solid No Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion, Eyes and Skin Irritation.
Effects Of Overexposure: Long term overexposure to inhalation of mists or dust of dried down particles may cause tissue response in the lung (Pneumoconiosis).
Emergency & First Aid Procedures: Terminate exposure. Flush eyes with water for 15 minutes. Call a doctor

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Routine Housekeeping
Waste Disposal Method: N/A

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respiratory protection is not normally needed since the volatility and toxicity are low. If significant mists or aerosols are generated, wear a NIOSH approved or equivalent respirator, (ANSI Z-88.2, 1980 for requirements and selection).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.

Protective Gloves: Recommended.

Eye Protection: Goggles/Safety Glasses Recommended.

Other Protective Equipment: As required to meet applicable OSHA Standards .

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be Taken After Use And Upon Removal: This product as manufactured contains a Silicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

$\frac{1}{2}$ (-----)#
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 2 of 2

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics Ceramic Adhesives

Resbond 940 Zirconia Ceramic Adhesive
Resbond 940HT Alumina Ceramic Adhesive
Resbond 940LE Silica Ceramic Adhesive
Resbond 940HE High Expansion Adhesive
Resbond 940SS Stainless Steel

Part 1 BASE (POWDER)

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture

Chemical Family: Alumina, Zirconia or Silica

Chemical Formula: N/A

Part A: Powder

Refractory Ceramic Composition (Aluminum, Zirconia, Stainless 316 or Silica)

Part B: Liquid Binder or Water (See page 2)

Proprietary Silicate, Alumina, Zirconia, Colloid Bond

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	TVL/PEL
Part A: Powder		
Refractory Ceramic Powder	100	5 mg/ Cu M
940SS 316 Stainless Steel (Alloy)	Fe 7439-89-6	90 -100 (total alloy content)
	Mo 7439-98-7	
	Ch 7440-47-3	
	Ni 7440-02-0	

Part B: Liquid Binder or Water

Refractory Ceramic Colloid	0 - 30	N/A
Water	0 - 100	

B. After Normal Use See Section 8

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O=1) :	1.5 - 3	1.2 - 2.5
Percent Volatile By Volume:	20 - 50	N/A
(%) Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Creamy Paste/No Odor	Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid) : Aluminum metal powder.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild acid.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* Respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended

Eye Protection: Recommended

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85 **DATE REVISED:** 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

TRADE NAME

Resbond 940 940HT 940LE 940HE 940SS

Part 2 ACTIVATOR (LIQUID)

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Family: Alumina, Quartz, Zirconia, or Silica

Chemical Family: Refractory Ceramic Colloid, Proprietary Silicate, Colloid Bond.

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Liquid Binder or Thinner		
Refractory Ceramic Colloid	20 - 50	N/A
Water	50 - 80	
B. After Normal Use See Section 8		
C. Mist or Dried dust from spraying (Not formed in normal use)	30 - 50	10 mg/m ³

All Materials contained within are located on the TOSCA Inventory List
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	As Cured
Boiling Point (§F) :	212°F	N/A
Specific Gravity (H₂O=1) :	1.2 - 1.4	1.2-2.5
Vapor Pressure (mm Hg.) :	0.2-1.2	N/A
Vapor Density (Air=1) :	>1	N/A
Percent Volatile By Volume:	20-50	N/A
Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Clear or Opalescent liquid No Odor	Solid No Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	N/A
Flash Point (Method Used) :	N/A
Flammable Limit:	N/A
Unusual Fire and Explosive Hazards:	LEL = N/A
Special Fire Fighting Procedures:	UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion, Eyes and Skin Irritation.

Effects Of Overexposure: Long term overexposure to inhalation of mists or dust of dried down particles may cause tissue response in the lung (Pneumoconiosis).

Emergency & First Aid Procedures: Terminate exposure. Flush eyes with water for 15 minutes. Call a doctor

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Routine Housekeeping

Waste Disposal Method: N/A

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respiratory protection is not normally needed since the volatility and toxicity are low. If significant mists or aerosols are generated, wear a NIOSH approved or equivalent respirator, (ANSI Z-88.2, 1980 for requirements and selection).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.

Protective Gloves: Recommended.

Eye Protection: Goggles/Safety Glasses Recommended.

Other Protective Equipment: As required to meet applicable OSHA Standards .

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken After Use And Upon Removal: This product as manufactured is a Silicate could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

DISCLAIMER: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET

RESBOND 907GF

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Family: Aluminosilicate, Alumina or Silicate
Chemical Formula: N/A
Comments: See Section 9

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	TVL/PEL
Refractory Ceramics	50-70	
Refractory Colloid*	20-30	
Water	10-20	

B. After Normal Use See Section 8

* (Water Base)

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O = 1) :	1	0.5 - 0.8
Percent Volatile by Volume:	70 - 80	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O = 1) :	1	N/A
Appearance and Odor:	Creamy Paste No Odor.	Solid
Vapor Pressure (mm Hg.) :	17	N/A

VOLATILE ORGANIC CONTENT VOC = 0

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire And Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL= N/A

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SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion And Skin Irritation.
Emergency and First Aid Procedures: Flush eyes with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult a physician immediately.
Effects Of Overexposure:
Currently, studies have shown that signs of slight dermatological irritation have occurred after prolonged skin contact. This product contains minor amounts of binders which burn out during first heat up. Emergency and First Aid Procedures Terminate Exposure.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: N/A
Waste Disposal Method: Routine Housekeeping

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) Dust respirator in compliance with OSHA Standard currently 29 CFR 1910.134 (NIOSH Approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).
Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94
Mechanical (General): Follow OSHA Standard 29 CFR 1910.94
Protective Gloves: Recommended
Eye Protection: Goggles/Safety Glasses Recommended
Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream
Material does not appear on NTP and/or LAC lists of reports for Carcinogens

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken During First Exposure To Heat:
Trace temporary organic binders will burn off during the first exposure to heat. (500 - 1000°F) carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and a small amount of formaldehyde may accompany binder burn-off. Use adequate ventilation or other precautions to eliminate vapors resulting from binder burn-off. Exposure to burn-off fumes may cause respiratory tract irritation.
Precautions To Be Taken After Use And Upon Removal:
This product as manufactured contains an aluminosilicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics Ceramic Adhesives

Part A

905 Quartz Ceramic Adhesive 920 Alumina Ceramic Adhesive
906 Magnesia Ceramic Adhesive 944 Silica Ceramic Adhesive
908 Alumina Ceramic Adhesive 7030 Silica Ceramic Adhesive
919 Zirconia Ceramic Adhesive

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina, Quartz, Magnesia, Zirconia, or Silica.
Chemical Formula: N/A
Part A: Powder
Refractory Ceramic Composition (See Type Above)
Part B: Liquid Binder or Water (See page 2)
Proprietary Silicate, Phosphate, Alumina, Zirconia, Colloid Bond

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	TVL/PEL
Part A: Powder Refractory Ceramic Powder	100	5 mg/ Cu M
Part B: Liquid Binder or Water Refractory Ceramic Colloid	0 - 30	N/A
Water	0 - 100	

B. After Normal Use See Section 8

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O=1) :	1.5 - 3	1.2 - 2.5
Percent Volatile By Volume:	20 - 50	N/A
(%) Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Creamy Paste/No Odor	Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire And Explosive Hazards: LeI = N/A
Special Fire Fighting Procedures: UeI = N/A

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid) : Aluminum metal powder.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild acid.
Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* Respirators recommended for spray applications.
Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.
Protective Gloves: Recommended
Eye Protection: Recommended
Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storing: Keep container closed and avoid getting wet until ready to use.
Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics 900 Series One Component Ceramic Adhesives

901, 904, 907, 931C, 989

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture

Chemical Family: Mica, Silica, Alumina, Graphite Magnesia, or Zirconia

Chemical Formula: N/A

Refractory Ceramic Composition (See Type Above)

Proprietary Silicate, Phosphate, Alumina, Zirconia, Colloid Bond

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Refractory Ceramic Powder	20 - 40	5 mg/ Cu M
Refractory Ceramic Colloid	20 - 30	5 mg/ Cu M
Water	Balance	

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O=1) :	1.5 - 3	1.2 - 2.5
Percent Volatile by Volume:	20 - 50	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Creamy Paste/No Odor	Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	N/A
Flash Point (Method Used) :	N/A
Flammable Limit:	N/A
Unusual Fire And Explosive Hazards:	LeI = N/A
Special Fire Fighting Procedures:	UeI = N/A

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability:	Stable
Incompatibility (Materials to Avoid) :	None
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note liquid is mild acid.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended

Eye Protection: Recommended

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating or Smoking. Avoid Getting Powder in Body Openings, Including Cuts, Sores, Mouth, etc.

Precautions To Be Taken After Use And Upon Removal: This product as manufactured contains Silicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

$$\frac{1}{2}(\text{-----})\#$$
$$\% \text{ Respirable quartz} + 2$$

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS

1529 Duraseal 1529H Duraseal

Manufactures Name : COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235 Emergency Tel # 718-646-7996

SECTION ONE

Chemical Name And Synonyms: Methylphenylsiloxane

Solution:

Chemical Formula: N/A

Chemical Family: Polysiloxane

Comments: N/A

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials

Toluene Acgih TLV: 100 Osha Pel: 200 : ppm

CAS REG NO.: 108-88-3* Approx. %: 30 - 50 %

B. Nonhazardous Proprietary: Polysiloxane Resin

This product contains Methylpolysiloxanes which can generate Formaldehyde at approximately 300°F and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

Note: Product releases a visible fog of cyclic siloxanes and methoxy stopped siloxanes, as well as methanol under normal processing conditions.

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: Clear Liquid **Odor:** Aromatic **PH:** N/A

Melting or Freezing Point: N/A

Boiling Point: 232 (°F) 111°C

Vapor Pressure (22.0 mm Hg) : (20°C)

Vapor Density (AIR=1) : 3.2

Solubility In Water: (20°F) Insoluble.

% Volatile (By Volume) : 20

Solubility In Organic Solvent: Yes in Toluene.

Specific Gravity (Water 1) : 1.14

Evaporation Rate (BUTYL Acetate = 1) : 2

Density: 1138 MG/M³

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >52°F. **Auto Ignition Temp.:** 997°F.

Lower Explosion Limit (%) : N/A.

Upper Explosion Limit(%) : N/A.

Flammable Limits In Air (%) : Lower 1.2, Upper 7.0.

Extinguishing Media: All Standard Firefighting Media.

Special Firefighting Procedures: Flammable. Wear Respiratory Protection If In A Confined Area.

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: **Inhalation:** Excessive inhalation causes headaches, dizziness, nausea and in coordination. Harmful if inhaled. **Eye Contact:** Causes severe eye irritation. **Skin Contact:** Causes drying of the skin. **Ingestion:** Harmful if swallowed causes vomiting, nausea and diarrhea.

Medical Conditions Aggravated: Liver & Kidney.

Page 1 of 2

HIMS RATING Health = 1 Fire = 2 Reactivity = 1

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

Chronic Effects Of Over Exposure: Dermatitis, Liver & Kidney Damage. Flush with water for 15 minutes and get Medical attention if irritation persists.

Emergency And First Aid Procedures:

Ingestion: If swallowed do not induce vomiting, give large quantities of water to drink and get Medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and laundry before reuse. Wash with soap and water. Get Medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Carbon Monoxide. Carbon Dioxide.

Formaldehyde.

Incompatibility (Materials To Avoid): None Known.

Conditions To Avoid: Keep away from heat, sparks and open flame. Avoid any source of ignition.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

Note: solids content approximately 50%.

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DATE PREPARED 12/20/89 REVISED 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS

DURASEAL 1529 UHT

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin
Chemical Formula: N/A
Chemical Family: Silicone
Comments : N/A

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials

Alpha-Isotridecyl-Omega-Hydroxy-Polyglycoether 0.5% - 2.5 %
CAS Registry No.: 9043-30-5
Toluene (trace amount) 0.005%-0.5%
CAS Registry No108-88-3

All materials contained within are listed on the TSCA Inventory list.

This material is non hazardous under OSHA criteria

There are no carcinogenic ingredients present at or over 0.1% in this material This material contains between 0.005 and .05% of toluene identified as being a developmental reproductive toxin based on This product is compliant with the RoHS Directive.animal studies

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: White Liquid **Odor:** Odorless
Melting or Freezing Point: -1°C, 30°F
Boiling Point: 100°C, 212°F
Vapor Pressure : 17.25 mm Hg at 20°C (68°F)
Solubility In Water (20°F) : Completely Miscible
Density: 1.04 - 1.5 g/cm³
pH Value 4-6

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA
Boiling Point: 100°C
Autoignition Temp. 455°C
Lower Explosion Limit (%) : N/A.
Upper Explosion Limit(%) : N/A.
Extinguishing Media: All Standard Firefighting Media.
Special Firefighting Procedures: NA

Material does not burn and does not present any unusual fire or explosion hazards.

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: **Inhalation:** Excessive inhalation causes headaches, dizziness, nausea and in coordination. Harmful if inhaled. **Eye Contact:** May cause eye irritation.
Skin Contact: May cause skin irritation. **Ingestion:** Harmful if swallowed. Causes vomiting, nausea, and diarrhea.

No toxic effects are expected and no known physical hazards.

Chronic Effects of Over Exposure: None Expected.

Emergency and First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: If stored and handled according to standard industrial practice none known. For the silicone content of the substance measurements have shown the formation of small amounts of formaldehyde at temperatures above 150°F through oxidation.

Incompatibility (Materials to avoid): None Known.

SECTION 7: SPILL OR LEAK PROCEDURES

Do not introduce into waters, sewage water or soil. Dam in any fluid that runs out using suitable material (earth). Spills of material that reaches waters must be reported to United States coast Guard National Response Centers toll free number 800 424 8802 Wear protective clothing.

Waste Disposal Methods: Incinerate liquid in approved equipment. Incinerate contaminated diking material in accordance with local, state and federal regulations. If small amounts absorb with a liquid binding material If large amount pump into suitable containers. Clean any slippery coating that remains using a cold cleaner (petroleum naphtha or a water/surefactant mix)

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves: Impervious

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep container tightly closed Protect against sun. Minimum temp allowed during storage and transportation 0°C 32°F.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED 12/20/89 REVISED 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS

DURASEAL 1529 UHT THINNER

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin

Chemical Formula: N/A

Chemical Family: Silicone

Comments : N/A

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials

Alpha-Isotridecyl-Omega-Hydroxy-Polyglycoether 0.25% - 1.25 %

CAS Registry No.: 9043-30-5

Toluene (trace amount) 0.0025%-0.25%

CAS Registry No108-88-3

All materials contained within are listed on the TSCA Inventory list.

This material is non hazardous under OSHA criteria

There are no carcinogenic ingredients present at or over 0.1% in this material This material contains between 0.005 and .05% of toluene identified as being a developmental reproductive toxin based on This product is compliant with the RoHS Directive. animal studies

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: White Liquid **Odor:** Odorless

Melting or Freezing Point: -1°C, 30°F

Boiling Point: 100°C, 212°F

Vapor Pressure : 17.25 mm Hg at 20°C (68°F)

Solubility In Water (20°F) : Completely Miscible

Density: 1.00 - 1.2 g/cm³

pH Value 5.5-6.5

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA

Boiling Point: 100°C

Autoignition Temp. 455°C

Lower Explosion Limit (%) : N/A.

Upper Explosion Limit(%) : N/A.

Extinguishing Media: All Standard Firefighting Media.

Special Firefighting Procedures: NA

Material does not burn and does not present any unusual fire or explosion hazards.

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: **Inhalation:** Excessive inhalation causes headaches, dizziness, nausea and in coordination. Harmful if inhaled. **Eye Contact:** May cause eye irritation.

Skin Contact: May cause skin irritation. **Ingestion:** Harmful if swallowed. Causes vomiting, nausea, and diarrhea.

No toxic effects are expected and no known physical hazards.

Chronic Effects of Over Exposure: None Expected.

Emergency and First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: If stored and handled according to standard industrial practice none known. For the silicone content of the substance measurements have shown the formation of small amounts of formaldehyde at temperatures above 150°F through oxidation.

Incompatibility (Materials to avoid): None Known.

SECTION 7: SPILL OR LEAK PROCEDURES

Do not introduce into waters, sewage water or soil. Dam in any fluid that runs out using suitable material (earth). Spills of material that reaches waters must be reported to United States coast Guard National Response Centers toll free number 800 424 8802 Wear protective clothing.

Waste Disposal Methods: Incinerate liquid in approved equipment. Incinerate contaminated diking material in accordance with local, state and federal regulations. If small amounts absorb with a liquid binding material If large amount pump into suitable containers. Clean any slippery coating that remains using a cold cleaner (petroleum naphtha or a water/surefactant mix)

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves: Impervious

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep container tightly closed Protect against sun. Minimum temp allowed during storage and transportation 0°C 32°F.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED 12/20/89 REVISED 02/23/06

**MATERIAL SAFETY DATA SHEET
COTRONICS
DURASEAL 1529 UHT
ADDENDUM**

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin
Chemical Formula: N/A
Chemical Family: Silicone
Comments : N/A

14 Transport information

14.1 US DOT & CANADA TDG SURFACE

Valuation.....: Not regulated for transport

Other Information.....: Protect from freezing.

14.2 Transport by sea IMDG-Code

Valuation.....: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

**MATERIAL SAFETY DATA SHEET
COTRONICS
DURASEAL 1529 FS**

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin
Chemical Formula: N/A
Chemical Family: Silicone
Comments : N/A

14 Transport information

14.1 US DOT & CANADA TDG SURFACE

Valuation.....: Not regulated for transport

Other Information.....: Protect from freezing.

14.2 Transport by sea IMDG-Code

Valuation.....: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

MATERIAL SAFETY DATA SHEET

COTRONICS 1529 DURASEAL THINNER

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms : Methylphenylsiloxane Solution
Chemical Formula: N/A
Chemical Family: Siloxane
Comments : N/A

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials

Toluene Acgih TLV: 100 Osha Pel: 200: ppm
CAS REG NO.: 108-88-3* Approx. %: 90 - 100 %
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: Clear Liquid **Odor:** Aromatic **PH:** N/A
Melting Or Freezing Point: N/A
Boiling Point: 232 (°F) 111°C
Vapor Pressure (22.0 mm Hg) : (20°C)
Vapor Density (AIR = 1) : 3.2
Solubility In Water (20°F) : Insoluble.
% Volatile (By Volume) : 20
Solubility In Organic Solvent: Yes in Toluene.
Specific Gravity (Water 1) : 1.14
Evaporation Rate (BUTYL Acetate = 1) : 2
Density: 1138 MG/M³

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >52°F.
Auto Ignition Temp: 997°F.
Lower Explosion Limit (%) : N/A.
Upper Explosion Limit(%) : N/A.
Flammable Limits In Air (%) : Lower 1.2, Upper 7.0.
Extinguishing Media: All Standard Firefighting Media.
Special Firefighting Procedures: Flammable. Wear Respiratory Protection If In A Confined Area.

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Excessive inhalation causes headaches, dizziness, nausea and in coordination. Harmful if inhaled.
Eye Contact: Causes severe eye irritation.
Skin Contact: Causes drying of the skin.
Ingestion: Harmful if swallowed. Causes vomiting, nausea, and diarrhea.
Medical Conditions Aggravated: Liver & Kidney

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Page 2 of 2

Chronic Effects Of Over Exposure: Dermatitis, Liver & Kidney Damage. Flush with water for 15 minutes and get Medical attention if irritation persists.

Emergency And First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.
Skin: Remove contaminated clothing and laundry before reuse. Wash with soap and water. Get medical attention if irritation persists.
Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.
Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: Carbon Monoxide. Carbon Dioxide. Formaldehyde.
Incompatibility (Materials To Avoid): None Known.
Conditions To Avoid: Keep away from heat, sparks and open flame. Avoid any source of ignition.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .
Protective Gloves: Impervious
Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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HIMS RATING Health = 1 Fire = 2 Reactivity = 1

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET
COTRONICS
DURASEAL 1529 UHT

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin
Chemical Formula: N/A
Chemical Family: Silicone
Comments : N/A

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials

Alpha-Isotridecyl-Omega-Hydroxy-Polyglycoether 0.5% - 2.5 %
CAS Registry No.: 9043-30-5
Toluene (trace amount) 0.005%-0.5%
CAS Registry No108-88-3

All materials contained within are listed on the TSCA Inventory list.

This material is non hazardous under OSHA criteria

There are no carcinogenic ingredients present at or over 0.1% in this material This material contains between 0.005 and .05% of toluene identified as being a developmental reproductive toxin based on This product is compliant with the RoHS Directive. animal studies

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: White Liquid **Odor:** Odorless
Melting or Freezing Point: -1°C, 30°F
Boiling Point: 100°C, 212°F
Vapor Pressure : 17.25 mm Hg at 20°C (68°F)
Solubility In Water (20°F) : Completely Miscible
Density: 1.04 - 1.5 g/cm³
pH Value 4-6

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA
Boiling Point: 100°C
Autoignition Temp. 455°C
Lower Explosion Limit (%) : N/A.
Upper Explosion Limit(%) : N/A.
Extinguishing Media: All Standard Firefighting Media.
Special Firefighting Procedures: NA

Material does not burn and does not present any unusual fire or explosion hazards.

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: Inhalation: Excessive inhalation causes headaches, dizziness, nausea and in coordination. Harmful if inhaled. **Eye Contact:** May cause eye irritation.
Skin Contact: May cause skin irritation. **Ingestion:** Harmful if swallowed. Causes vomiting, nausea, and diarrhea.

No toxic effects are expected and no known physical hazards.

Chronic Effects of Over Exposure: None Expected.

Emergency and First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: If stored and handled according to standard industrial practice none known. For the silicone content of the substance measurements have shown the formation of small amounts of formaldehyde at temperatures above 150°F through oxidation.

Incompatibility (Materials to avoid): None Known.

SECTION 7: SPILL OR LEAK PROCEDURES

Do not introduce into waters, sewage water or soil. Dam in any fluid that runs out using suitable material (earth). Spills of material that reaches waters must be reported to United States coast Guard National Response Centers toll free number 800 424 8802 Wear protective clothing.

Waste Disposal Methods: Incinerate liquid in approved equipment. Incinerate contaminated diking material in accordance with local, state and federal regulations. If small amounts absorb with a liquid binding material If large amount pump into suitable containers. Clean any slippery coating that remains using a cold cleaner (petroleum naphtha or a water/surefactant mix)

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves: Impervious

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep container tightly closed Protect against sun. Minimum temp allowed during storage and transportation 0°C 32°F.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED 12/20/89 REVISED 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS

DURASEAL 1529FS

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: CHEMICAL NAME

Chemical Name and Synonyms : Alkyl Silicone Resin
Chemical Formula: N/A
Chemical Family: Silicone
Comments: N/A

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials

Isotridecyl hydroxy polyglycol ether	1.0% - 10%
CAS Registry No.: 9043-30-5	
Toluene (trace amount)	0.005%-0.5%
CAS Registry No108-88-3	

All materials contained within are listed on the TSCA Inventory list.

This material is non hazardous under OSHA criteria

There are no carcinogenic ingredients present at or over 0.1% in this material This material contains between 0.005 and .05% of toluene identified as being a developmental reproductive toxin based on This product is compliant with the RoHS Directive.animal studies

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: White Liquid	Odor: Odorless
Melting or Freezing Point:	-1°C, 30°F
Boiling Point:	100°C, 212°F
Vapor Pressure :	17.25 mm Hg at 20°C (68°F)
Solubility In Water (20°F) :	Completely Miscible
Density:	1.04 - 1.5 g/cm ³
pH Value	4-6

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	NA
Boiling Point:	100°C
Autoignition Temp.	455°C
Lower Explosion Limit (%) :	N/A
Upper Explosion Limit(%) :	N/A
Extinguishing Media:	All Standard Firefighting Media.
Special Firefighting Procedures:	NA

Material does not burn and does not present any unusual fire or explosion hazards.

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: Inhalation: Excessive inhalation causes headaches, dizziness, nausea and in coordination. Harmful if inhaled. **Eye Contact:** May cause eye irritation.

Skin Contact: May cause skin irritation. **Ingestion:** Harmful if swallowed. Causes vomiting, nausea, and diarrhea.

No toxic effects are expected and no known physical hazards.

Chronic Effects of Over Exposure: None Expected.

Emergency and First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: If stored and handled according to standard industrial practice none known. For the silicone content of the substance measurements have shown the formation of small amounts of formaldehyde at temperatures above 150°F through oxidation.

Incompatibility (Materials to avoid): None Known.

SECTION 7: SPILL OR LEAK PROCEDURES

Do not introduce into waters, sewage water or soil. Dam in any fluid that runs out using suitable material (earth). Spills of material that reaches waters must be reported to United States coast Guard National Response Centers toll free number 800 424 8802 Wear protective clothing.

Waste Disposal Methods: Incinerate liquid in approved equipment. Incinerate contaminated diking material in accordance with local, state and federal regulations. If small amounts absorb with a liquid binding material If large amount pump into suitable containers. Clean any slippery coating that remains using a cold cleaner (petroleum naphtha or a water/surefactant mix)

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves: Impervious

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep container tightly closed Protect against sun. Minimum temp allowed during storage and transportation 0°C 32°F.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED 12/20/89 REVISED 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET
COTRONICS
DURASEAL 1529 UHT THINNER

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin

Chemical Formula: N/A

Chemical Family: Silicone

Comments : N/A

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials

Alpha-Isotridecyl-Omega-Hydroxy-Polyglycoether 0.25% - 1.25 %

CAS Registry No.: 9043-30-5

Toluene (trace amount) 0.0025%-0.25%

CAS Registry No108-88-3

All materials contained within are listed on the TSCA Inventory list.

This material is non hazardous under OSHA criteria

There are no carcinogenic ingredients present at or over 0.1% in this material This material contains between 0.005 and .05% of toluene identified as being a developmental reproductive toxin based on This product is compliant with the RoHS Directive. animal studies

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: White Liquid **Odor:** Odorless

Melting or Freezing Point: -1°C, 30°F

Boiling Point: 100°C, 212°F

Vapor Pressure : 17.25 mm Hg at 20°C (68°F)

Solubility In Water (20°F) : Completely Miscible

Density: 1.00 - 1.2 g/cm³

pH Value 5.5-6.5

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA

Boiling Point: 100°C

Autoignition Temp. 455°C

Lower Explosion Limit (%) : N/A.

Upper Explosion Limit(%) : N/A.

Extinguishing Media: All Standard Firefighting Media.

Special Firefighting Procedures: NA

Material does not burn and does not present any unusual fire or explosion hazards.

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: Inhalation: Excessive inhalation causes headaches, dizziness, nausea and in coordination. Harmful if inhaled. **Eye Contact:** May cause eye irritation.

Skin Contact: May cause skin irritation. **Ingestion:** Harmful if swallowed. Causes vomiting, nausea, and diarrhea.

No toxic effects are expected and no known physical hazards.

Chronic Effects of Over Exposure: None Expected.

Emergency and First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: If stored and handled according to standard industrial practice none known. For the silicone content of the substance measurements have shown the formation of small amounts of formaldehyde at temperatures above 150°F through oxidation.

Incompatibility (Materials to avoid): None Known.

SECTION 7: SPILL OR LEAK PROCEDURES

Do not introduce into waters, sewage water or soil. Dam in any fluid that runs out using suitable material (earth). Spills of material that reaches waters must be reported to United States coast Guard National Response Centers toll free number 800 424 8802 Wear protective clothing.

Waste Disposal Methods: Incinerate liquid in approved equipment. Incinerate contaminated diking material in accordance with local, state and federal regulations. If small amounts absorb with a liquid binding material If large amount pump into suitable containers. Clean any slippery coating that remains using a cold cleaner (petroleum naphtha or a water/surefactant mix)

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves: Impervious

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep container tightly closed Protect against sun. Minimum temp allowed during storage and transportation 0°C 32°F.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED 12/20/89 REVISED 02/23/06

**MATERIAL SAFETY DATA SHEET
COTRONICS
DURASEAL 1529 UHT
ADDENDUM**

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin
Chemical Formula: N/A
Chemical Family: Silicone
Comments : N/A

14 Transport information

14.1 US DOT & CANADA TDG SURFACE

Valuation.....: Not regulated for transport

Other Information.....: Protect from freezing.

14.2 Transport by sea IMDG-Code

Valuation.....: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

**MATERIAL SAFETY DATA SHEET
COTRONICS
DURASEAL 1529 FS**

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin
Chemical Formula: N/A
Chemical Family: Silicone
Comments : N/A

14 Transport information

14.1 US DOT & CANADA TDG SURFACE

Valuation.....: Not regulated for transport

Other Information.....: Protect from freezing.

14.2 Transport by sea IMDG-Code

Valuation.....: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

MATERIAL SAFETY DATA SHEET

Cotronics 1530 Ceramic Sealer Two Component

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina or Silica
Chemical Formula: N/A

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured	WT. %	TVL/PEL
Part A Powder		
Refractory Ceramic Powder	100	5 mg/ Cu M
Part B Liquid Binder (Water Base)		
Refractory Ceramic Colloid	100	N/A
Proprietary Silicate, Phosphate, or Alumina Colloid Binder		

B. After Normal Use See Section 8

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

DOT ID.. Number: Not Regulated.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air = 1) :	>1	N/A
Specific Gravity Range (H₂O = 1) :	1.5-3	1.2-2.5
Percent Volatile by Volume:	20-50	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O = 1) :	1	N/A
Appearance and Odor:	Creamy Paste No Odor.	Solid
Vapor Pressure (mm Hg.) :	17	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media Flash Point: N/A (Method Used): N/A

Flammable Limit: N/A

Unusual Fire And Explosive Hazards:

LEL: N/A

UEL: N/A

Special Fire Fighting Procedures: N/A

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure:

Slight dermatological irritation after prolonged skin contact.

Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Powdered aluminum metal.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released or Spilled:

Sweep up spilled powder and dispose in approved industrial waste container.

Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild acid.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved*. Respirators recommended for spray applications.

Ventilation: Local Exhaust:

Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter as the exhaust is discharged into the workplace.

Protective Gloves: Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions to Be Taken in Handling and Storing: Keep container closed and avoid getting wet until ready to use.

Other precautions: wash hands thoroughly before eating or smoking. Avoid getting powder in body openings, including cuts, sores, mouth, etc.

Precautions To Be Taken After Use And Upon Removal:

This product as manufactured contains an aluminosilicate which could transform upon heating to mullet and cristobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula:

$$\frac{1}{2}(\text{-----})\#$$

$$\% \text{ Respirable quartz} + 2$$

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

Disclaimer

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DATE PREPARED 11/01/85 DATE REVISED 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics Corporation

1531 Silicone Sealer

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture

Chemical Family: Proprietary Silicone

Chemical Formula: N/A

When exposed to moisture 5-10% methylethylketoxome may be formed.

*All materials contained are listed on the EPA TOSCA INVENTORY LIST.

DOT I.D Number: Not Regulated.

SECTION 2: COMPOSITION INFORMATION

<i>As Manufactured</i>	<i>CAS</i>	<i>ACGIH (TLV)</i>	<i>OSHA (PEL)</i>	<i>OTHER</i>
Modified Silicon Dioxide	68611449	10mg/m3	6mg/m3	6mg/m3
Iron Oxide (Fe)	1309371	5mg/m3	10mg/m3	None
Silica, Mica (respirable)	12001262	3mg/m3	3mg/m3	None
Methyl ethyl Ketoxime	96297	None	None	10 ppm

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	<i>As Supplied</i>
Boiling Point (°F) :	N/A Polymeric
Vapor Density (Air = 1) :	3.0
Specific Gravity Range (H₂O = 1) :	1.0
Percent volatile by Volume (EPA method 24) :	56 grams per liter
(%) Solubility in Water:	Polymerized
Evaporation Rate (H₂O = 1) :	1
Appearance and Odor:	Gold Colored Paste, Mild Odor
Vapor Pressure (mm Hg.) :	Less than 5 mm

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:

Flash Point (tag closed cup) : >200°F Flammable Limit.

Special Fire Fighting Procedures:

Extinguishing Agents: Carbon Dioxide, Foam Dry Chemical.

Unusual Fire and Explosive Hazards:

Explosive limits (% By Volume In Air): LEL 2.6% Ferric Oxide, 6% Methanol
UEL 12.5% Ferric Oxide, 36% Methanol

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Slight dermatological irritation after prolonged skin contact. Moderately toxic by ingestion. When heated to 300°F in presence of air can form formaldehyde vapors which are a potential cancer hazard and known irritant to the skin and eyes. Keep vapors below OSHA limits via ventilation.

Emergency And First Aid Procedures:

Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately. Do not induce vomiting.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable.

Incompatibility (Materials to Avoid) : Strong oxidizers polymerized by contact with moisture.

Hazardous Decomposition Products: Fire Formaldehyde, Silica Fume, Oxides Of Carbon Hazardous Decomposition non thermal: Methyl ethyl ketoxime.

Hazardous Polymerization: Will Not Occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken in Case Material is Released or Spilled:

Wipe or Scrape up spilled materials. Maintain good ventilation for large spills. Place scrap materials in a well ventilated place and allow to cure to rubber.

Waste Disposal Method:

Approved industrial waste disposal means. Follow local regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation: Local Exhaust maintaining vapors lower than the TVL limit.

Skin: Rubber Or Plastic Gloves.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

Warning: This product contains a chemical or chemicals known to the state of California to a cause cancer or cause birth defects or other reproductive harm.

22 Cal code 12601 b 5

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DATE PREPARED 09/01/93 DATE REVISED 02/23/06

HIMS RATING Health = 1 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics 1532 Silicone Sealer

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Proprietary Silicone
Chemical Formula: N/A

All materials contained are listed on the EPA TOSCA INVENTORY LIST.
DOT ID. Number: Not Regulated.

SECTION 2: COMPOSITION INFORMATION

As Manufactured	CAS	ACGIH (TLV)	OSHA (PEL)
Methyltrimethoxysilane 1-5 %	1185-55-3	200 ppm	200 ppm
Trade Secret Component 1-5 %		25 ppm	35 STEL ppm

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied
Boiling Point (°F) :	N/A Polymeric
Vapor Density (Air = 1) :	3.0
Specific Gravity Range (H₂O = 1) :	1.0
Percent volatile by Volume (EPA method 24) :	56 grams per liter
(%) Solubility in Water:	Polymerized
Evaporation Rate (H₂O = 1) :	1
Appearance and Odor:	Translucent Paste, Mild Odor
Vapor Pressure (mm Hg.) :	Less than 5 mm
VOC (EPA METH. 24) (G/L):	Less than .5%
Solubility in Organic Solvent (State Solvent):	Toluene

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: Flash Point: 110°C 230 °F
Method: Pensk.
Ignition Temp: NA
Unusual Fire and Explosive Hazards:
Explosive limits (% By Volume In Air): LEL N/A UEL N/A
Sensitivity to Mechanical Impact (Y/N): No
Sensitivity to Static Discharge: Sensitivity to static discharge is not expected.
Extinguishing Media: All standard firefighting media.

SECTION 5: HEALTH HAZARD DATA

Ingestion: May be harmful if swallowed.
Skin Contact: Uncured product contact may irritate the skin.
Inhalation: Causes moderate respiratory irritation. Applies only in uncured state.
Eye Contact: Uncured product contact irritates eyes.
Chronic Effects/Carcinogenicity: This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Skin: To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water. Get medical attention if irritation persists.
Inhalation: Move person to fresh air.
Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

SECTION 7: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable.
Incompatibility (Materials to Avoid) : None known.
Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Silicon Dioxide, Methanol, Ammonia, Formaldehyde.
Hazardous Polymerization: Will Not Occur.
Conditions to Avoid: None known.

SECTION 8: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:
Wipe, scrape or soak up in an inert material and put in a container for disposal. Washing walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.
Waste Disposal Method:
Approved industrial waste disposal means. Follow local regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation: Local Exhaust maintaining vapors lower than the TVL limit.
Skin: Rubber, Plastic, Or Cloth Gloves.
Eye Protection: Safety glasses.
Other Protective Equipment: Wear eye protection and protective clothing.
Ventilation: Use only in well ventilated area.

SECTION 10: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storing: Keep container closed when not in use. Avoid contact with skin and eyes. Use mechanical ventilation to stay below TLV of 25 ppm ammonia. Product releases ammonia during application and curing.
Other Precautions: Wash Hands Thoroughly Before Eating or Smoking.
*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

Warning: This product contains a chemical or chemicals known to the state of California to a cause cancer or cause birth defects or other reproductive harm.
22 Cal code 12601 b 5

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DATE PREPARED 09/01/97 DATE REVISED 02/23/06

MATERIAL SAFETY DATA SHEET

Cotronics 1533 5 Minute Silicone Casting Compound

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996
This product is compliant with the RoHS Directive.

SECTION 1 : PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Family: Two part polyvinylsiloxane (addition type platinum catalyst)
Chemical Formula: N/A

SECTION 2: HAZARDOUS INGREDIENTS

Material : No hazardous ingredients listed by OSHA or ACGIH
Threshold Value: TLV None established by OSHA
Nature of Hazard: Mild irritant to skin and eyes.

SECTION 3: PHYSICAL DATA

Boiling Point (°F) : N/A
Melting Point (°F): N/A
Vapor Density (Air = 1) : N/A
Specific Gravity Range (H₂O = 1) : 1.15 g/cc @25C
Percent volatile by Volume (EPA method 24) : Nil
(%) Solubility in Water: Negligible
Evaporation Rate (H₂O = 1) : N/A
Vapor Pressure (mm Hg.) : Negligable
VOC (EPA METH. 24) (G/L): N/A
Appearance and Odor: Part A White Opaque viscous liquid
Part B Green Opaque viscous liquid
Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: Over 200°F
Method: TOC
Ignition Temp: N/A Material is non flammable.
Unusual Fire and Explosive Hazards: None
Explosive limits (% By Volume In Air): LEL N/A UEL N/A
Extinguishing Media: All standard firefighting media. (Carbon Dioxide, Dry Chemical, Water)

SECTION 5: HEALTH HAZARD DATA

Ingestion: May be harmful if swallowed. Stomach Upset and Diarrhea.
Skin Contact: Uncured product contact may irritate the skin.
Inhalation: Not expected in normal use.
Eye Contact: Uncured product contact irritates eyes.
Chronic Effects/Carcinogenicity: No ingredients identified as a carcinogen or a suspected carcinogen by NTP, IARC, or OSHA.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Skin: To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water. Get medical attention if irritation persists.
Inhalation: Move person to fresh air.
Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

SECTION 7: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: stable under normal conditions.
Incompatibility (Materials to Avoid) : water, strong acids and bases, powdered metals
Hazardous decomposition products: Carbon Dioxide, Silicon Dioxide
Hazardous polymerization: will not occur.
Conditions to avoid: none known.

SECTION 8: SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Wipe, scrape or soak up in an inert material and put in a container for disposal.
Washing walking surfaces or residual product with ethyl alcohol or other appropriate solvent to reduce slipping or other hazards. Wear proper protective equipment as specified in the protective equipment section.
Waste disposal method: Approved industrial waste disposal means. Follow local regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust.
Skin: Rubber, plastic or cloth gloves.
Eye Protection: Safety glasses.
Other Protective Equipment: Wear eye protection and protective clothing.
Ventilation: Use only in well ventilated area.

SECTION 10: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storing: Keep container closed when not in use. Store in cooled, dry well ventilated area. Avoid contact with skin and eyes. Keep away from children.

Other Precautions: Wash hands thoroughly before eating or smoking.

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DATE PREPARED 09/01/97 DATE REVISED 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESINS

DURALCO 4400 DURALCO 4460 DURALCO 4460 HT
DURALCO 4461 DURALCO 4462

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: >400°F
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.16
Vapor Pressure (mm Hg) : 760mm
Melting Or Freezing Point: <40°F
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Amber Transparent Liquid To Viscous Black Liquid.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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Page 1 of 2

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

DURALCO 4400 DURALCO 4460 DURALCO 4460 HT
DURALCO 4461 DURALCO 4462

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: 4460 and 4460Ht - Acid Anhydride
4400, 4461, 4462 - Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Off white opaque amber liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXIES

SINGLE COMPONENT DURALCO 4420 - DURALCO 455

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin

SECTION 2: COMPOSITION INFORMATION

Material:	WT. %	CAS	TLV/PEL	Ld ₅₀ Oral
Proprietary Modified Epoxy Resin	40-60%	Novolac Resin	N/A	4000 mg/kg rabbit
Aluminum Oxide	40-60%			
Dicyandiamide	1-5%	461-58-5		>10,000 mg/kg rat
Dimethylurea Complex	1-5%	101-42-8	10 mg/m ³	N/A

Nature of Hazard: Irritant

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: No Data
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water = 1) : 1.16
Vapor Pressure (mm Hg) : No Data
Melting Or Freezing Point: No Data
Evaporation Rate (Butyl Acetate = 1) : <1
Appearance Odor: Viscous Grey Liquid

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: No Data
Lower Explosion Limit (%) : No Data
Upper Explosion Limit(%) : No Data
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after Prolonged Contact. Not absorbed in toxic amounts.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move Subject To Fresh Air. Give Artificial Respiration If Breathing Has Stopped.
Eye And Skin Contact: Flush Eyes With A Large Amount Of Water For At Least 15 Minutes. Get Prompt Medical Attention. Wash Skin Thoroughly With Soap And Water. Remove And Wash Clothing Before Reuse.
Ingestion: If Swallowed Dilute By Giving 2 Glasses Of Water To Drink. See A Physician. Never Give Anything By Mouth To An Unconscious Person.

SECTION 7: REACTIVITY INFORMATION

Stability: 3 Months at Temp Below 70°F
Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET
COTRONICS EPOXY RESINS

DURALCO 4525 DURALCO 4535 DURALCO S5H13
DURALCO 4537 DURALCO 4538 DURALCO 4540

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin.*

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: > 400°F
Vapor Density (Air= 1) : > 1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water= 1) : 1.7 - 2.1
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: < 40°F
Evaporation Rate (Butyl Acetate= 1) : < 1
Appearance/Odor: Amber Transparent To Viscous Black Liquids/Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts
Ingestion: Possibly harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESINS

DURALCO 4525HT DURALCO 4540HT

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture

Chemical Formula: N/A

Chemical Family: Proprietary Modified Epoxy Resin.*

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: > 400°F

Vapor Density (Air=1) : >1

Solubility In Water: Negligible

% Volatile (By Weight) : Negligible

Specific Gravity (Water=1) : 1.7 - 2.1

Vapor Pressure (mm Hg) : N/A

Melting Or Freezing Point: < 40°F

Evaporation Rate (Butyl Acetate=1) : <1

Appearance/Odor: Viscous Black or Grey Liquids/Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 295°F

Auto Ignition Temp: N/A

Lower Explosion Limit (%) : N/A

Upper Explosion Limit (%) : N/A

Extinguishing Media: Foam, CO₂, Dry

Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS DURALCO 4525HT DURALCO 4540HT

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Transparent amber to opaque brown liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

DURALCO 4525 DURALCO 4535 DURALCO S5H13
DURALCO 4537 DURALCO 4538 DURALCO 4540

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Transparent amber to opaque brown liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Possibly harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY RESINS

DURALCO 4525N Resin

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin.*

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: > 400°F
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.47
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: < 40°F
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Amber Transparent To Viscous Black Liquids/Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY HARDENERS

DURALCO 4525N Hardener

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture*

Formula: N/A

Chemical Family: Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 1.97
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Transparent amber to opaque brown
liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 2 of 2

HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY RESINS

DURALCO 4538 HT

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Formula: N/A

Chemical Family: Proprietary Modified Epoxy Resin.*

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin

All materials contained within are listed on the TSCA Inventory list

This product is compliant with the RoHS Directive..

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: > 400°F
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.0 - 1.3
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: < 40°F
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Amber Transparent To Viscous Black Liquids/Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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Note: This is a preliminary data sheet and will be revised as additional data is obtained

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health =2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

DURALCO 4538 HT

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.9 - 1.1
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Transparent amber to opaque brown liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

Disclaimer: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

Note: This is a preliminary data sheet and will be revised as additional data is obtained

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 2 of 2

HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESIN

DURALCO 4700 - DURALCO 4700HT
DURALCO 4703 - DURALCO 4703HT

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name: N/A
Chemical Family: Proprietary Modified Epoxy Resin
Chemical Formula: N/A

*Please Note All Materials Contained Are Listed On The EPA TSCA Inventory List.
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin
Nature of Hazard: Irritant

SECTION 3: PHYSICAL PROPERTY INFORMATION

Melting or Freezing Point: <40°F
Boiling Point: >400°F
Vapor Pressure (mm Hg) : N/A
Vapor Density (Air=1) : >1.
Solubility In Water: Negligible.
% Volatile (By Weight) : Negligible.
Specific Gravity (Water 1) : 1.16.
Evaporation Rate (Butyl Acetate = 1) : <1.
Appearance Odor: Viscous Black Liquid

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295 °F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit(%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact . Not absorbed in toxic amounts
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur.

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)
Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.
Corrosive Material: Avoid all eye and skin contact..
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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Date Prepared 11/01/85

Date Revised 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

DURALCO 4700 - DURALCO 4700HT
DURALCO 4703 - DURALCO 4703HT

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Acid Anhydride Complex.
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Off white opaque amber liquid/Amine odor

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

*Note all materials contained are listed on the EPA TSCA Inventory list.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 2 of 2

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXIES

SINGLE COMPONENT DURALCO 4701

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms: N/A Mixture

Chemical Formula: N/A

Chemical Family: Proprietary Modified Epoxy Resin

SECTION 2: COMPOSITION INFORMATION

Material:	WT. %	CAS	TLV/PEL	Ld₅₀ Oral
Proprietary Modified Epoxy Resin	40-60%	Novolac Resin	N/A	4000 mg/kg rabbit

Aluminum Oxide	40-60%			
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Proprietary Poyly Anhydride	7-15%		N/A	
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Nature of Hazard: Irritant

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: No Data

Vapor Density (Air=1) : >1

Solubility In Water: Negligible

% Volatile (By Weight) : Negligible

Specific Gravity (Water = 1) : 1.40-1.60

Vapor Pressure (mm Hg) : No Data

Melting Or Freezing Point: No Data

Evaporation Rate (Butyl Acetate = 1) : <1

Appearance Odor: Viscous White Liquid

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >260°F **Lower Explosion Limit (%) :** No Data

Auto Ignition Temp: No Data **Upper Explosion Limit (%) :** No Data

Extinguishing Media: Foam, CO₂, Dry

Chemical: Water Spray

Unusual Fire and explosion Hazards: Products of combustion are toxic

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after Prolonged Contact. Not absorbed in toxic amounts.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. get prompt medical attention. wash skin thoroughly with soap and water. remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. see a physician. never give anything by mouth to an unconscious person.

Chemicals are not listed as a carcinogen by national toxicology program, IARC monographs, OSHA etc.

SECTION 7: REACTIVITY INFORMATION

Shelf life: 3 Months at Temp Below 70°F

Stability: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid Moisture, Heat

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes). Floors may become slippery.

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Keep container tightly closed while not in use.

Corrosive Material: Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET FLAME RETARDANT EPOXIES

DURAPOT 4861F, 4864F, 4866F

SECTION ONE: MANUFACTURER

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 2: COMPOSITION INFORMATION

Chemical Family	CAS #	%
Part A Resin		
Epoxy Resin	*	<80%
Antimony Oxide	1309644	<20%
Decabromodiphenyloxide	1163195	<22%
Part B Hardener		
Proprietary Organic Amines (Contains No MDA)		98 - 100%

* Proprietary Novalac Epoxy Resins

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance/Odor:	Resin: Viscous Amber liquid/Sweet odor. Hardener: Amber transparent liquid/Amine odor.
Melting Or Freezing Point:	N/A
Boiling Point:	N/A
Vapor Pressure (mm Hg) :	N/A
Vapor Density (Air=1) :	>1.
Solubility In Water:	Negligible.
% Volatile (By Weight) :	Negligible.
Specific Gravity (Water=1) :	Resin: 0.9 - 1.4g/cc Hardener: 0.9 - 1.3 g/cc
Evaporation Rate (Butyl Acetate=1) :	<1.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	>295°F
Auto Ignition Temp:	N/A
Lower Explosion Limit (%) :	N/A
Upper Explosion Limit(%) :	N/A
Extinguishing Media:	Foam, CO ₂ , Dry
Chemical:	Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will Not Occur.

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.

Corrosive Material: Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS

Duralco™ 6105

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Alkyl Silicone Resin

Chemical Formula: N/A

Chemical Family: Silicone

SECTION 2: COMPOSITION INFORMATION

Ingredients	CAS No.	%
Alpha-Isotridecyl-Omega-Hydroxy-Polyglycoether	9043-30-5	0.5% - 2.5%
Toluene (trace amount)	108-88-3	0.005%-0.5%
316 Stainless Steel (Alloy)	Fe 7439-89-6	5- 20% (total alloy content)
	Mo 7439-98-7	
	Ch 7440-47-3	
	Ni 7440-02-0	

This material is non hazardous under OSHA criteria.

There are no carcinogenic ingredients present at or over 0.1% in this material. This material contains between 0.005 and 0.05% of toluene identified as being a developmental reproductive toxin based on animal studies.

HIMS Hazard Ratings Fire =0 Reactivity = 0 Health=1

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance:	Brush on Paint, Odorless, grey
Melting or Freezing Point:	-1°C, 30°F
Boiling Range:	100°C, 212°F
Vapor Pressure	17.25 mmHG at 20°C
Vapor Density (AIR = 1) :	Greater than 1
Solubility In Water (20°F) :	Completely miscible
Specific Gravity (Water 1) :	1.0-1.5 gm/cc

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not Applicable
Flammable Limits In Air (%) :	Not Applicable
Auto Ignition Temperature:	455°C, Material does not burn.
Extinguishing Media:	Use what is appropriate for the source of fire.
Special Firefighting Procedures:	Flammable. Self contained breathing apparatus. Cool uninvolved cans to prevent rupture.
DOT Proper Shipping Name:	Consumer Commodity ORM - D

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Breathing difficulties, dizziness or light headiness, with high vapor concentration.

Eye Contact: Causes severe eye irritation. seek medical attention.

Skin Contact: Slight transient irritation.

Medical Conditions Aggravated: No known physical hazards.

Chronic Effects of Over Exposure: May cause eye irritation, slight skin irritation.

Emergency and First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, do not induce vomiting. Remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: If stored and handled in accordance with standard industrial practices non known. The following applies to the silicone content of the material.

Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150°C though oxidation.

Incompatibility (Materials To Avoid): none known.

Conditions To Avoid: none known.

SECTION 7: SPILL OR LEAK PROCEDURES

If Spilled: Prevent spills from entering surface waters, drains or sewers, open soil. Dam in any fluid that runs out using suitable material (earth). Spills of material that may reach surface waters must be reported to the United States Coast Guard.

Waste Disposal Methods: Dispose of according to regulations by incineration in a special waste incinerator Observe local state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Use with adequate ventilation. Local exhaust not necessary.

Protective Gloves: Neoprene gloves and aprons, butyl rubber protective gloves.

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility, Ventilation equipment should be explosion proof.

SECTION 9: SPECIAL PRECAUTIONS

Keep container tightly closed. Protect against the sun. Minimum temperature allowed during storage and transportation 0°C, 32°F.

Note to Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/ or prolonged contact. Acute effects can include mucosa damage may contraindicate the use of gastric lavage.

Disclaimer: While the data and suggestions contained herein are based on information we believe to be reliable, it is furnished without warranty of any kind. Users should consider this data only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to insure proper use and disposal of these materials and the safety and health of employees and customers.

DATE PREPARED 12/20/89 REVISED 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS

Duralco™ 6105SP

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name and Synonyms : Paint
Chemical Formula: Mixture
Chemical Family: Mixture

SECTION 2: COMPOSITION INFORMATION

A. Hazardous Materials	CAS No.	%	Osha PEL (Ppm)	TLV (ppm)	Vapor Pres. (PSIG @ 70 °F)
Propane	74-98-6	10	1000	100	123
Isobutane	75-28-5	17	N E	N E	31
* Methanol	67-56-1	0.3	200	200	96
* Methylene Chloride	75-09-2	23	500	50	340
Mineral Spirits	8052-413	12	500	100	2
* Xylene	1330-20-7	15	100	100	6

*These Materials are subject to reporting requirements of section 313 SARA Title III and 40 CFR 372. Aerosol contents under pressure of 55 (+/-) 5 psi.

HIMS Hazard Ratings Fire =4 Reactivity = 0 Toxicity = 2

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance: Typical aerosol spray paint
Melting Or Freezing Point: N/A
Boiling Range: - 43 °F to + 412 °F
Vapor Pressure Not greater than 70 (PSIG @ 70 °F)
Vapor Density (AIR = 1) : Greater than 1
Solubility In Water (20°F) : Not greater than 2.00/100 g
% Volatile (By Volume) : 78 %
Specific Gravity (Water 1) : Greater than 1.0
Evaporation Rate (BUTYL Acetate = 1) : Faster than ether

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: Approximately - 138°F (propellant)
OSHA Flammability Classification Flammable Liquid Class 1- A
Flammable Limits In Air (%) : Lower 2.0, Upper 10.0
Extinguishing Media: Foam Dry Chemical or CO2
Special Firefighting Procedures: Flammable. Self contained breathing apparatus. Cool uninvolved cans to prevent rupture.

DOT Proper Shipping Name: Consumer Commodity ORM - D

Unusual Fire and Explosion Hazards: Avoid excessive heat. Isolate form electrical equipment, sparks, and open flames. Application to hot surfaces requires special precautions. Thermal decomposition may yield carbon monoxide and/or carbon dioxide, nitrogen oxides, and hydrogen chloride and may cause health hazards. Symptoms may not be immediately apparent. Vapors heavier than air may flow along surfaces to distant ignition sources and flashback.

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Breathing difficulties, dizziness or light headiness, with high vapor concentration.

Eye Contact: Causes severe eye irritation. seek medical attention.

Medical Conditions Aggravated: Respiratory, brain and central nervous system conditions, dermatitis and other skin afflictions. Reports have linked methylene chloride exposure and cardiovascular problems.

Chronic Effects of Over Exposure: reports have associated repeated and prolonged over exposure to solvents with permanent damage to the brain and nervous system. Methylene chloride may produce an increase in carbon hemoglobin, and has caused liver and kidney effects in animals. Methylene chloride is a suspected carcinogen and is listed by the national toxicology program and the occupational safety and health administration.

Emergency and First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, do not induce vomiting. Remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get Medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get Medical attention.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Nitrogen oxides, Hydrogen Chloride.

Incompatibility (Materials To Avoid): Strong oxidizers, strong acids or bases.

Conditions To Avoid: Excessive heat, sparks and open flame.

SECTION 7: SPILL OR LEAK PROCEDURES

If Released or Spilled: For massive spills evacuate the area. For all spills eliminate ignition sources. Dike and contain spills with dry inert materials (sand, earth, etc.) Eliminate all sources of moisture, do not use water in clean up operations. Recover as much of free liquid as possible for disposal and use an absorbent to pick up the residue. Avoid discharge into a sewer or surface waters.

Waste Disposal Methods: Dispose of absorbed material or the free waste liquid in dry containers according to local state and federal regulations. DO NOT INCINERATE, do not flush into sewers. Containers may explode if heated. It is recommended that solid waste be disposed of only at approved hazardous disposal sites using approved contractors.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Work place areas require exhaust ventilation in accordance with OSHA regulations 29 CFR part 1910 (1070) to maintain vapor levels below the TLV (especially during spraying, misting, of heating). Use an approved high efficiency respirator of the full face canister type Exhaust levels should be maintained at least 1 f m.

Respiratory Protection: Use approved high efficiency mechanical respirator to remove particles of overspray during application. In areas of restricted ventilation use high efficiency chemical/mechanical filters designed to remove a combination of particulates and vapor. In confined area use NIOSH approved organic vapor cartridges must be used in respirator

Protective Gloves: Neoprene gloves and aprons.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent)

Other Protective Equipment: Eyewash facility, Ventilation equipment should be explosion proof.

SECTION 9: SHIPPING

DOT Proper Shipping Name: Consumer Commodity - ORM-D

Disclaimer: While the data and suggestions contained herein are based on information we believe to be reliable, it is furnished without warranty of any kind. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to insure proper use and disposal of these materials and the safety and health of employees and customers.

Warning: This product contains a chemical or chemicals known to the state of California to cause cancer or cause birth defects or other reproductive harm.

DATE PREPARED 12/20/89 REVISED 02/23/06

MATERIAL SAFETY DATA SHEET

7020 CERAMIC PUTTY

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Family: Aluminosilicate, Alumina, Or Silicate
Chemical Formula: N/A
Comments: See Section 9

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	TVL/PEL
Refractory Ceramics	50-70	
Refractory Colloid*	20-30	
Water	10-20	

B. After Normal Use See Section 8

* (Water Base)

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O = 1) :	1	0.5 - 0.8
Percent Volatile by Volume:	70 - 80	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O = 1) :	1	N/A
Appearance and Odor:	Creamy Paste No Odor.	Solid
Vapor Pressure (mm Hg.) :	17	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	N/A
Flash Point (Method Used) :	N/A
Flammable Limit:	N/A
Unusual Fire And Explosive Hazards:	LEL = N/A
Special Fire Fighting Procedures:	UEL = N/A

Disclaimer: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion And Skin Irritation.

Effects Of Overexposure:

Currently, there are no known chronic health effects in humans from long term exposure to refractory ceramic fibers. Animal studies to date are inconclusive. However, based on limited testing, refractory ceramic fibers are a suspected carcinogen in laboratory animals. The Thermal Insulation Manufacturers Association (TIMA) is sponsoring animal inhalation studies as well as epidemiological studies of workers in the industry. Until definite answers become available, strict adherence to recommended safe work practices described elsewhere in this MSDS is advised. This product contains minor amounts of binders which burn out during first heat up. Emergency and First Aid Procedures Terminate Exposure.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: N/A

Waste Disposal Method: Routine Housekeeping

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) Dust respirator in compliance with OSHA Standard currently 29 CFR 1910.134 (NIOSH Approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94

Mechanical (General): Follow OSHA Standard 29 CFR 1910.94

Protective Gloves: Recommended

Eye Protection: Goggles/Safety Glasses Recommended

Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream
Material does not appear on NTP and/or LAC lists of reports for Carcinogens

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken During First Exposure To Heat:

Trace temporary organic binders will burn off during the first exposure to heat. (500 - 1000°F) carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and a small amount of formaldehyde may accompany binder burn-off. Use adequate ventilation or other precautions to eliminate vapors resulting from binder burn-off. Exposure to burn-off fumes may cause respiratory tract irritation.

Precautions To Be Taken After Use And Upon Removal:

This product as manufactured is an aluminosilicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula:

$$10 \text{ mg/cu m} \times \frac{1}{2}(\text{-----})\#$$

% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS

702-2 PL PLACE IT

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Aluminosilicate, Alumina, Or Silicate
Chemical Formula: N/A
Comments: See Section 9

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured	WT. %	TVL/PEL
Refractory Ceramic Fiber	100	2 f / cc
B. After Normal Use	See Section 8	

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F) :	N/A
Vapor Density (Air=1) :	N/A
Specific Gravity Range (H₂O = 1) :	N/A
Percent Volatile by Volume:	N/A
(%) Solubility in Water:	Insoluble
Evaporation Rate (H₂O = 1) :	N/A
Appearance and Odor:	NO ODOR. 372 UHT WET MAT
Vapor Pressure (mm Hg.) :	0.2 - 1.2

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	Flash Point (Method Used) :	Flammable Limit:
N/A	N/A	N/A
Unusual Fire And Explosive Hazards:	Special Fire Fighting Procedures:	
Lel = N/A	Uel = N/A	

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*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion And Skin Irritation

Effects Of Overexposure:

Currently, there are no known chronic health effects in humans from long term exposure to refractory ceramic fibers. Animal studies to date are inconclusive. However, based on limited testing, refractory ceramic fibers are a suspected carcinogen in laboratory animals. The Thermal Insulation Manufacturers Association (TIMA) is sponsoring animal inhalation studies as well as epidemiological studies of workers in the industry. Until definite answers become available, strict adherence to recommended safe work practices described elsewhere in this MSDS is advised. This product contains minor amounts of binders which burn out during first heat up. Emergency and First Aid Procedures Terminate Exposure.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: N/A

Waste Disposal Method: Routine Housekeeping

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) Dust respirator in compliance with OSHA STANDARD currently 29 CFR 1910.134 (NIOSH Approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge (s)).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94

Protective Gloves: Recommended

Eye Protection: Goggles/Safety Glasses Recommended

Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream
Material does not appear on NTP and/or LAC lists of reports for Carcinogens

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken During First Exposure To Heat:

Trace temporary organic binders will burn off during the first exposure to heat. (500-1000°F) carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and a small amount of formaldehyde may accompany binder burn-off. Use adequate ventilation or other precautions to eliminate vapors resulting from binder burn-off. Exposure to burn-off fumes may cause respiratory tract irritation.

* Note for 372 UHT thermal decomposition may release corrosive HCl fumes.

Precautions To Be Taken After Use And Upon Removal:

This product as manufactured is an aluminosilicate which could transform upon heating to mullite and cristobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

$\frac{1}{2}$ (-----)#

% Respirable quartz + 2

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION 7025 Aluminum Putty

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Comments: N/A
Chemical Family: Base: Proprietary Aluminum Composition
Binder: Proprietary Silicate Alumina Bond

SECTION 2: COMPOSITION INFORMATION

Part A Base	CAS#	WT. %:	TVL/PEL:
Aluminum	7429-90-5	65 - 75	

*(1984-85 ACGIH TLV Booklet, Page 50)

All materials contained within are listed on the TSCA Inventory list.

See page 2 for binder information

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F): 212°F as mixed
Specific Gravity Range (H₂O=1): 3.0-3.0
Vapor Pressure (mm Hg.): N/A
Vapor Density (Air=1): N/A
Volatile By Volume (%): 10 -20
Solubility in Water: soluble
Evaporation Rate (=1): N/A
Appearance/Odor: smooth grey putty
Volatile Constituent: Water

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used): N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: *Skin Contact: Slight dermatological irritation after prolonged skin contact.*

Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

DATE PREPARED: 01/01/89

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials To Avoid): N/A
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powders and dispose in approved industrial waste container. Hose spilled liquids or mixed adhesive with water, immediately. 950,952, 954 adhesives are not water soluble after drying.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): NIOSH approved*. Respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc. Use With Adequate Ventilation. Avoid Repeated Skin Contact. Wash Skin Thoroughly After Handling.

Precautions To Be Taken After Use And Upon Removal: This product as manufactured contains Silicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

$\frac{1}{2}$ (-----)#
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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MATERIAL SAFETY DATA SHEET

TRADE NAME

7025 Aluminum Putty Part B

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Family: Alumina, Phosphate or Silica

Chemical Family: Refractory Ceramic Colloid

Proprietary Silicate, Phosphate, Alumina, Colloid Bond.

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Liquid Binder or Thinner		
Refractory Ceramic Colloid	20 - 50	N/A
Water	50 - 80	
B. After Normal Use See Section 8		
C. Mist or Dried dust from spraying (Not formed in normal use)	30 - 50	10 mg/m ³

All Materials contained within are located on the TSCA Inventory List

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	As Cured
Boiling Point (°F) :	212°F	N/A
Specific Gravity (H₂O=1) :	1.2 - 1.4	1.2-2.5
Vapor Pressure (mm Hg.) :	0.2-1.2	N/A
Vapor Density (Air=1) :	>1	N/A
Percent Volatile By Volume:	20-50	N/A
Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Clear or Opalescent liquid /No Odor	Solid No Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	N/A
Flash Point (Method Used) :	N/A
Flammable Limit:	N/A
Unusual Fire and Explosive Hazards:	LEL = N/A
Special Fire Fighting Procedures:	UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion, Eyes and Skin Irritation.

Effects Of Overexposure: Long term overexposure to inhalation of mists or dust of dried down particles may cause tissue response in the lung (Pneumoconiosis).

Emergency & First Aid Procedures: Terminate exposure. Flush eyes with water for 15 minutes. Call a doctor

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Routine Housekeeping

Waste Disposal Method: N/A

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respiratory protection is not normally needed since the volatility and toxicity are low. If significant mists or aerosols are generated, wear a NIOSH approved or equivalent respirator, (ANSI Z-88.2, 1980 for requirements and selection).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.

Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.

Protective Gloves: Recommended.

Eye Protection: Goggles/Safety Glasses Recommended.

Other Protective Equipment: As required to meet applicable OSHA Standards .

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be Taken After Use and Upon Removal: This product as manufactured contains a Silicate which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

$$\frac{1}{2}(\text{-----})\#$$
$$\% \text{ Respirable quartz} + 2$$

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 2 of 2

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics Ceramic Adhesives
Two Component
7030 Hi-Seal Silica Ceramic Adhesive

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina, Silica
Chemical Formula: N/A
Part A Refractory Ceramic Composition (See Type Above)
Part B Water

SECTION 2: COMPOSITION INFORMATION

A. Manufactured WT. % TVL/PEL
Part A Powder:
Refractory Ceramic Powder 100 5 mg/ Cu M
Part B Liquid Binder
Water 100
B. After Normal Use See Section 8
Note Other non hazardous materials will not be listed separately

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O = 1) :	1.5 - 3	1.2 - 2.5
Percent Volatile by Volume:	20 - 50	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O = 1) :	1	N/A
Appearance and Odor:	Creamy Paste No Odor.	Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: N/A
Special Fire Fighting Procedures: LEL UEL

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency and First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Strong Acids
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:
Sweep up spilled powder and dispose in approved industrial waste container.
Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild acid.
Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved*
Respirators recommended for spray applications.
Ventilation: Local Exhaust:
Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.
Protective Gloves: Recommended
Eye Protection: Recommended
Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Keep container closed and avoid getting wet until ready to use.
Other Precautions: Wash Hands Thoroughly Before Eating or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc.
Precautions to be Taken After use and Upon Removal: This product as manufactured contains Silicate which could transform upon heating to mullet and crystalalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DOT ID. Number: Not Regulated

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

DURABOND 7031

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Family: Alumina
Chemical Formula: N/A Refractory Ceramic Composition
Comments: See Section 9

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	TVL/PEL
Refractory Ceramics	50-70	
Refractory Colloid*	20-30	

B. After Normal Use See Section 8

* (Water Base)

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O = 1) :	1.4-1.7	0.6 - 0.8
Percent Volatile by Volume:	70 - 80	N/A
(%) Solubility in Water:	Soluble	Insoluble
Evaporation Rate (H₂O = 1) :	1	N/A
Appearance and Odor:	Creamy Paste, No Odor.	Solid
Vapor Pressure (mm Hg.) :	17	N/A
VOLATILE ORGANIC CONTENT	VOC = 0	

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire And Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL= N/A

Disclaimer: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

DATE PREPARED: 11/01/85 DATE REVISED: 02/23/06

SECTION 5: HEALTH HAZARD DATA

Primary Route of Entry: Inhalation, Ingestion and Skin Irritation.

Emergency and First Aid Procedures: Flush eyes with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult a physician immediately.

Effects Of Overexposure:

Slight dermatological irritation after prolonged skin contact. Can be irritating to eyes.

Delayed Effects: No known chronic hazards. Not listed by OSHA, NTP or IARC as a carcinogen

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability Stable

Hazardous Decomposition Products None

Hazardous Polymerization Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Dispose of in approved industrial waste container Hose spilled wet cement paste with water. Cement is not water soluble after setting up

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) Dust respirator in compliance with OSHA Standard currently 29 CFR 1910.134 (NIOSH Approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94

Mechanical (General): Follow OSHA Standard 29 CFR 1910.94

Protective Gloves: Recommended

Eye Protection: Goggles/Safety Glasses Recommended

Other Protective Equipment: Long Sleeve, Loose Fitting Clothing and Barrier Cream

Material does not appear on NTP and/or LAC lists of reports for Carcinogens

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken in Handling and Storage

Keep tubes / containers sealed and avoid getting wet until ready to use. Store away from excessive heat (eg. Steam pipes, radiators)

Precautions To Be Taken After Use and Upon Removal:

This product as manufactured is an aluminosilicate which could transform upon heating to mullet and cristobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula:

$$10 \text{ mg/cu m} \\ \frac{1}{2}(\text{-----})\# \\ \% \text{ Respirable quartz} + 2$$

* (Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS DURABOND ADHESIVES

Durabond 7032 Stainless

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: General Information

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Proprietary Metallic Composition
Binder: Proprietary Silicate, Alumina, Bond

SECTION 2: COMPOSITION INFORMATION

As Supplied:	CAS #	WT. %	TVL/PEL
Nickel	744-002-0	0 - 15	1 mg/cu m
Stainless Steel		20 - 40	
Fe 7439-89-6			
Mo 7439-98-7			
Ch 7440-47-3			
Ni 7440-02-0			
Refractory Ceramic Colloid	proprietary	30-57	

*Please note all materials contained are listed on the EPA TSCA Inventory list.
This product is compliant with the RoHS Directive.
(1984-85 ACGIH TLV Booklet, Page 50).

SECTION 3: PHYSICAL DATA

Boiling Point (°F) : N/A
Specific Gravity Range (H₂O=1) : 2.0 - 3.0
Vapor Pressure (mm Hg.) : N/A
Vapor Density (Air=1) : N/A
Percent Volatile By Volume (%) : 10 - 30
Solubility in Water: Soluble
Evaporation Rate (=1) : N/A
Appearance/Odor: Smooth Grey Putty
Volatile Constituent: Water

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

SARA Section 313 Supplier Notification:

This product contains the following chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1968 and of 40 CFR 372: Nickel, Chromium. Refer to the Hazardous Ingredients section of this MSDS for the appropriate CAS numbers.

SECTION 5: HEALTH HAZARD DATA

Nickel: LD₅₀: Oral Rat > 5000 mg/kg.

IARC found there was inadequate evidence that metallic nickel or chromium is carcinogenic to humans but since there was sufficient evidence that is carcinogenic to animals, IARC concluded that metallic nickel or chromium is possibly carcinogenic to humans. Epidemiological studies of workers exposed to nickel or chromium powder and to dust and fumes generated in the production of nickel alloys and of stainless steel have not indicated the presence of a significant respiratory cancer hazard.

Effects Of Overexposure:

Skin Contact: Repeated contact with metallic nickel can cause nickel sensitivity and allergic skin rashes.

Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid) : N/A
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled Adhesive with water, immediately. 950 Adhesive is not water soluble after drying.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved* Respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc. Use With Adequate Ventilation. Avoid Repeated Skin Contact. Wash Skin Thoroughly After Handling.

* (Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

DATE PREPARED: 1/01/89

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS ALUMINUM EPOXY PUTTY

DURALCO 7034

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Family: CAS %
Epoxy Resin 50 - 70%S
Stainless : Fe 7439-89-6 30 - 50%
Mo 7439-98-7
Ch 7440-47-3
Ni 7440-02-0

The Remaining Components are Proprietary

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin

Other non-hazardous materials will not be listed separately

Nature of Hazard: Irritant

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance Odor: Viscous Grey liquid
Melting Or Freezing Point: N/A
Boiling Point: N/A
Vapor Pressure (mm Hg) : N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.5 - 2.0
Evaporation Rate (Butyl Acetate = 1) : <1

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: **Inhalation:** Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes. **Skin Contact:** Substance is moderately irritating and can cause superficial burns after prolonged contact . Not absorbed in toxic amounts **Ingestion:** Harmful if swallowed.

Effects: Prolonged or repeated exposure can cause allergic reaction.

IARC found there was inadequate evidence that metallic nickel or chromium is carcinogenic to humans but since there was sufficient evidence that is carcinogenic to animals, IARC concluded that metallic nickel or chromium is possibly carcinogenic to humans. Epidemiological studies of workers exposed to nickel or chromium powder and to dust and fumes generated in the production of nickel alloys and of stainless steel have not indicated the presence of a significant respiratory cancer hazard.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable **Hazardous Polymerization:** Will not occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes). **Waste Disposal Methods:** Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Corrosive to copper and brass on long storage.

Corrosive Material: Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

SARA Section 313 Supplier Notification:

This product contains the following chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1968 and of 40 CFR 372: Nickel, Chromium. Refer to the Hazardous Ingredients section of this MSDS for the appropriate CAS numbers.

Disclaimer: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

DATE PREPARED: 11/01/83

DATE REVISED: 02/23/06

Page 1 of 2

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY HARDENERS

DURALCO 7034 HARDENER

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Black / Amine odor

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

PROPRIETARY MATERIAL SAFETY DATA SHEET COTRONICS EPOXY RESIN

DURALCO 7035

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Family	CAS #	%
Epoxy Resin	2806-414-4	<40%
Aluminum Powder	7429-90-5	<50%

The Remaining Components Are Proprietary

SECTION 2: COMPOSITION INFORMATION

Appearance Odor:	Viscous black liquid.
Melting Or Freezing Point:	N/A.
Boiling Point:	N/A.
Vapor Pressure (mm Hg) :	N/A.
Vapor Density (Air=1) :	>1.
Solubility In Water:	Negligible.
% Volatile (By Weight) :	Negligible.
Specific Gravity (Water=1) :	1.16.
Evaporation Rate (Butyl Acetate=1) :	<1.

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	>295°F.
Auto Ignition Temp:	N/A.
Lower Explosion Limit (%) :	N/A.
Upper Explosion Limit (%) :	N/A.
Extinguishing Media:	Foam, CO ₂ , Dry.
Chemical:	Water Spray.

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact . Not absorbed in toxic amounts

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

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SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Corrosive to copper and brass on long storage.

Corrosive Material: Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

DURALCO 7035

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 1.2 - 1.60
Evaporation Rate (Butyl Acetate=1) : <1

Appearance/Odor: Black / /Amine odor
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat. LD₅₀ = 9.8 Mg/L ALC
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. LD₅₀ = 7500 Mg/Kg ALD
Ingestion: Harmful if swallowed. LD₅₀ = > 2500 Mg/Kg ALD
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

*Note all materials contained are listed on the EPA TSCA Inventory list.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES
Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESIN

DURABOND 7036

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin

*Please note all materials contained are listed on the EPA TOSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Appearance & Odor: Amber transparent liquid to viscous light greyish

Melting Or Freezing Point: N/A
Boiling Point: N/A
Vapor Pressure (mm Hg) : N/A
Vapor Density (Air=1) : >1.
Solubility In Water: Negligible.
% Volatile (By Weight) : Negligible.
Specific Gravity (Water=1) : 1.16.
Evaporation Rate (Butyl Acetate=1) : <1.

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact . Not absorbed in toxic amounts.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

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SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Storage: Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Corrosive to copper and brass on long storage.

Corrosive Material: Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 1 Reactivity = 1

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY HARDENERS

DURABOND 7036 HARDENER

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: yellow, amber or red liquid/Amine odor
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

*Note all materials contained are listed on the EPA TSCA Inventory list.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY RESINS

DURALCO 7038

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Formula: N/A

Chemical Family: Proprietary Modified Epoxy Resin.*

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: > 400°F
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 0.9 - 1.2
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: < 40°F
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Tan/ Beige /Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY HARDENERS

DURALCO 7038

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture*

Formula: N/A

Chemical Family: Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A

Vapor Density (Air=1) : >1

Solubility In Water: Negligible

% Volatile (By Weight) : Negligible

Melting Or Freezing Point: N/A

Vapor Pressure (mm Hg) : N/A

Specific Gravity (Water=1) : 0.9 - 1.1

Evaporation Rate (Butyl Acetate=1) : <1

Appearance/Odor: Tan Beige liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F

Auto Ignition Temp: N/A

Lower Explosion Limit (%) : N/A

Upper Explosion Limit (%) : N/A

Extinguishing Media: Foam, CO₂, Dry

Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESIN

Bond- It Fast Set 7039

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin

SECTION 2: COMPOSITION INFORMATION

Appearance & Odor: Amber transparent liquid to viscous blueish grey liquid.
Melting Or Freezing Point: N/A
Boiling Point: N/A
Vapor Pressure (mm Hg) : N/A
Vapor Density (Air=1) : >1.
Solubility In Water: Negligible.
% Volatile (By Weight) : Negligible.
Specific Gravity (Water=1) : 1.16.
Evaporation Rate (Butyl Acetate=1) : <1.

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact . Not absorbed in toxic amounts.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

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SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Storage: Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

Bond- It Fast Set 7039

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: yellow, amber or red liquid/Amine odor
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

*Note all materials contained are listed on the EPA TSCA Inventory list.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 2 of 2

HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESIN

Bond- It 7040

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name and Synonyms: N/A Mixture

Chemical Formula: N/A

Chemical Family: Proprietary Modified Epoxy Resin

*Please note all materials contained are listed on the EPA TSCA Inventory list.

SECTION 2: COMPOSITION INFORMATION

Appearance & Odor: Light beige viscous liquid.

Melting Or Freezing Point: <40°F

Boiling Point: >300°F

Vapor Pressure (mm Hg) : No data.

Vapor Density (Air=1) : >1.

Solubility In Water: Negligible.

% Volatile (By Weight) : Negligible.

Specific Gravity (Water=1) : 1.16.

Evaporation Rate (Butyl Acetate=1) : <1.

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F

Auto Ignition Temp: N/A

Lower Explosion Limit (%) : N/A

Upper Explosion Limit (%) : N/A

Extinguishing Media: Foam, CO₂, Dry

Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

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SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Storage: Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Corrosive to copper and brass on long storage.

Corrosive Material: Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 1 of 2

HIMS RATING Health = 2 Fire = 1 Reactivity = 1

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

Bond- It 7040 Hardener

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Amine Complex

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Off white opaque amber liquid/Amine odor

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 2 of 2

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY RESINS

BOND-IT 7050 Resin

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Formula: N/A

Chemical Family: Proprietary Modified Epoxy Resin.*

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: > 400°F
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.8 - 2.1
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: < 40°F
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Viscous Black Liquid/Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY HARDENERS

BOND-IT 7050 Hardener

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Transparent amber to opaque brown liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY RESINS

Bond-IT 7056 Resin

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Formula: N/A

Chemical Family: Proprietary Modified Epoxy Resin.*

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin, Proprietary Modified Acrylate

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A

Vapor Density (Air=1) : >1

Solubility In Water: Negligible

% Volatile (By Weight) : Negligible

Specific Gravity (Water=1) : 1.0 - 1.4

Vapor Pressure (mm Hg) : N/A

Melting Or Freezing Point: N/A

Evaporation Rate (Butyl Acetate=1): <1

Appearance/Odor: Amber / Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F **Auto Ignition Temp:** N/A

Lower Explosion Limit (%) : N/A **Upper Explosion Limit (%) :** N/A

Extinguishing Media: Foam, CO₂, Dry Chemical, Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye and Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Hazards: High temp., Inhibitor depletion, accidental impurities, exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat and pressure. Closed containers may rupture or explode during runaway polymerization.

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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*Please note all materials contained are listed on the EPA TOSCA Inventory list.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY HARDENERS

Bond-IT 7056 Hardener

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Yellow or Amber/Amine Odor

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

*Note all materials contained are listed on the EPA TSCA Inventory list.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 2 of 2

HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY RESINS

Bond-IT 7056 AL Resin

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Formula: N/A

Chemical Family: Proprietary Modified Epoxy Resin.*

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin, Proprietary Modified Acrylate
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A

Vapor Density (Air=1) : >1

Solubility In Water: Negligible

% Volatile (By Weight) : Negligible

Specific Gravity (Water=1) : 1.0 - 1.4

Vapor Pressure (mm Hg) : N/A

Melting Or Freezing Point: N/A

Evaporation Rate (Butyl Acetate=1): <1

Appearance/Odor: Amber / Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 295°F **Auto Ignition Temp:** N/A

Lower Explosion Limit (%) : N/A **Upper Explosion Limit (%) :** N/A

Extinguishing Media: Foam, CO₂, Dry Chemical, Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts

Ingestion: Harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye and Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Hazards: High temp., Inhibitor depletion, accidental impurities, exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat and pressure. Closed containers may rupture or explode during runaway polymerization.

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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*Please note all materials contained are listed on the EPA TSCA Inventory list.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

BOND-IT 7056 AL Hardener

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Chemical Family: Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 1.3 - 1.5
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Off grey opaque liquid/Amine odor
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.
*Note all materials contained are listed on the EPA TSCA Inventory list.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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Date Prepared 11/01/85

Date Revised 02/23/06

HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

BOND IT 7057

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: See Below
Formula: Mixture of Alpha-Cyanoacrylate Esters
Chemical Family: Cyanoacrylate
Comments: N/A

SECTION 2: COMPOSITION INFORMATION

Material: Alpha-Cyanoacrylate Esters
Nature of Hazard: Skin and Eye Irritant
Threshold limit value not established for this mixture by OSHA or the ACGIH
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Appearance/Odor: Clear colorless liquid with a characteristic irritating acrid odor
Melting Or Freezing Point: N/A
Boiling Point: 149 °F at 6 mmHg
Vapor Pressure: less than 2 at 680°F
Vapor Density (Air=1) : Greater than 1
Solubility In Water: Insoluble
% Volatile (By Volume) : N/A
Evaporation Rate (Ether=1) : N/A
Specific Gravity (Water=1) : 0.9 -1.1

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: 180°F
Method Used: C.O.C.
Lower Explosion Limit (%) : Not determined
Extinguishing Media: CO₂ Foam or Dry Chemical
Special Firefighting Procedures: None for lab quantities, industrial quantities wear personal protective equipment to avoid fumes and direct contact with product

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DATE PREPARED: 6/11/92

DATE REVISED: 02/23/06

HIMS RATING Heath = 1 Fire =1 Reactivity = 1

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure:

Eye Contact: Vapors are irritating. Liquid can bond eyes closed.

Skin Contact: Irritation Immediately bonds surfaces together.

Ingestion: liquid is irritating and will rapidly bond mucosa and lips together.

Inhalation: Vapor is irritating to entire respiratory system. May worsen pre-existing pulmonary disorders as emphysema or asthma.

Emergency and First Aid Procedures:

Ingestion: Give water to drink, induce vomiting and contact a physician acute toxicity is not expected to be high.

Skin: Avoid pulling bonded tissue apart with force. Apply Bond It solvent or other suitable cyanoacrylate solvent and separate bonded skin slowly. Wash off with warm water and soap. If irritation persist contact a physician.

Inhalation: If inhaled, remove to fresh air. If breathing is difficult give oxygen and get medical attention.

Eyes: Hold lids open if possible immediately rinse well with water for 15 minutes. Get immediate medical attention.

Carcinogenicity: No ingredient identified as carcinogen or potential carcinogen by NTP, IARC or OSHA.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: May occur if directly contaminated with an activator.

Hazardous Decomposition Products: Combustion will form oxides of carbon and irritation nitrogen oxides.

Conditions To Avoid: Heat, moisture, direct sunlight

Incompatibility Materials to Avoid: water, acids, bases, peroxides will cause rapid polymerization and liberation of heat.

SECTION 7: SPILL OR LEAK PROCEDURES

Avoid skin contact or excessive exposure to fumes. Flush with water to harden small spills then scrape up. Small spills can also be absorbed and destroyed with wet paper or cloth.

Waste Disposal Methods: Dump as chemical waste in metal container after material has hardened. Dispose of according to local state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Local Exhaust is preferred.

Respiratory Protection: None required if good ventilation is maintained.

Protective Gloves: polyethylene gloves.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep containers well closed. Store and use in cool, dry, well ventilated area. For professional use only. keep out of reach of children. Avoid heat and direct sunlight. Normal precautions of laboratory good housekeeping practices should be followed.

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY RESINS

Duralco 9000 Epoxy Resin

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin

SECTION 2: COMPOSITION INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.92
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: N/A
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Blue viscous liquid, characteristic mild odor.
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.
Ingestion: Possibly harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 1 of 2

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Corrosive to copper and brass on long storage.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

Duralco 9000 Epoxy Hardener

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Transparent amber to opaque brown liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Possibly harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85 **DATE REVISED:** 02/23/06

HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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MATERIAL SAFETY DATA SHEET COTRONICS EPOXY RESINS

**DURABOND A54B DURABOND A54S
DURABOND 454B EPOX-EEZ RK454**

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin.
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin
Nature of Hazard: Irritant

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.1 - 2.0
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: N/A
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Grey To Viscous Black Liquid/Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

CONDITIONS TO AVOID: Open flames, sparks, heat, electrical and static discharge. Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire =1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY HARDENERS

DURABOND A54B DURABOND A54S
DURABOND 454B EPOX-EEZ Rk454

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Black liquid/Amine odor

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

CONDITIONS TO AVOID: Open flames, sparks, heat, electrical and static discharge. Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY RESINS

**DURABOND A54B DURABOND A54S
DURABOND 454B EPOX-EEZ RK454**

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name and Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin.
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin
Nature of Hazard: Irritant

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.1 - 2.0
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: N/A
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Grey To Viscous Black Liquid/Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY HARDENERS

**DURABOND A54B DURABOND A54S
DURABOND 454B EPOX-EEZ Rk454**

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Black liquid/Amine odor

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist/Vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.
Ingestion: Harmful if swallowed.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 2 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

PROPRIETARY MATERIAL SAFETY DATA SHEET COTRONICS CORPORATION

ACCULITE

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: INGREDIENTS

Formula Mixture of Alpha-cyanoacrylate Esters

Synonym Acculite™ (all types)

Nature of Hazard Skin and Eye Irritant

Threshold limits TLV Not Established for this mixture by OSHA or ACGIH

SECTION 2: PHYSICAL DATA

Appearance Odor: Clear colorless liquids with characteristic irritating acrid odor, Fast set and regular set are thin watery liquids. Gap fill is syrupy.

Melting Or Freezing Point: NA

Boiling Point: NA

Vapor Pressure (mm Hg) : Less than 2 at 68°F

Vapor Density (Air=1) : >1.

Solubility In Water: Insoluble

% Volatile (By Weight) : NA

Specific Gravity (Water=1) : 0.9-1.1

Evaporation Rate (Butyl Acetate=1): NA

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >180°V. C. O. C.

Auto Ignition Temp: N/A.

Lower Explosion Limit (%) : N/A.

Upper Explosion Limit (%) : N/A.

Extinguishing Media: Foam, CO₂, Dry.

Special Fire Fighting Procedures None for lab quantities, industrial quantities, wear personal protective equipment to avoid fumes and direct contact

Unusual Fire and Explosion Hazard None

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor is irritating to respiratory system may worsen pre existing pulmonary disorders as emphysema or asthma.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and will immediately bond surfaces

Ingestion: Liquid is irritating and will rapidly bond mucosa and lips.

No ingredient identified as a carcinogen or potential carcinogen by NTP or OSHA

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye Contact: Hold lids open if possible immediately rinse well with water for 15 min get immediate medical attention

Skin Contact: avoid pulling bonded tissue apart with force apply accusolve or other suitable cyanoacrylate solvents and separate bonded skin slowly wash off with warm water and soap if irritation persists contact a physician.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: May occur if directly contaminated with an activator

Conditions to Avoid: Heat Moisture

Materials to Avoid: Water Acids Bases Peroxides will cause rapid polymerization and liberation of heat.

SECTION 7: SPILL OR LEAK PROCEDURES

Avoid skin contact or excessive exposure to fumes, flush with water to harden small spills then scrape up small spills can also be absorbed and destroyed with wet paper or cloth.

Waste Disposal Methods: Dump as chemical waste in closed metal container after material has hardened.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: local exhaust is preferred

Respiratory Protection: None required if good ventilation is maintained.

Protective Gloves: polyethylene gloves

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Keep cyanoacrylate well separated from catalysts Store unopened bottles in refrigerator Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Corrosive to copper and brass on long storage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 1 Reactivity = 1

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

TRADE NAME

COTRONICS CERAMIC HARDENERS

900 Series Thinners and Hardeners 960 Hardener
310 Ceramic Hardener 901A Ceramic Hardener
3901A Ceramic Hardener 7010 Thermal Hardener

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina, Quartz, Magnesia, Zirconia, or Silica
Chemical Family: Refractory Ceramic Colloid
Proprietary Silicate, Phosphate, Alumina, Zirconia, Colloid Bond.

SECTION 2: COMPOSITION INFORMATION

As Manufactured:	WT. %	TVL/PEL
A. Liquid Binder or Thinner		
Refractory Ceramic Colloid	20 - 50	N/A
Water	50 - 80	
B. After Normal Use See Section 8		
C. Mist or Dried dust from spraying (Not formed in normal use)	30 - 50	10 mg/m ³

All Materials contained within are located on the TOSCA Inventory List
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	As Cured
Boiling Point (§F) :	212°F	N/A
Specific Gravity (H₂O=1) :	1.2 - 1.4	1.2-2.5
Vapor Pressure (mm Hg.) :	0.2-1.2	N/A
Vapor Density (Air=1) :	>1	N/A
Percent Volatile By Volume:	20-50	N/A
Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Clear or Opalescent liquid /No Odor	Solid No Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Primary Route Of Entry: Inhalation, Ingestion, Eyes and Skin Irritation.
Effects Of Overexposure: Long term overexposure to inhalation of mists or dust of dried down particles may cause tissue response in the lung (Pneumoconiosis).
Emergency & First Aid Procedures: Terminate exposure. Flush eyes with water for 15 minutes. Call a doctor

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

N/A

SECTION 7: SPILL OR LEAK PROCEDURES

Recommended Procedures: Routine Housekeeping
Waste Disposal Method: N/A

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : Respiratory protection is not normally needed since the volatility and toxicity are low. If significant mists or aerosols are generated, wear a NIOSH approved or equivalent respirator, (ANSI Z-88.2, 1980 for requirements and selection).
Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.
Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.
Protective Gloves: Recommended.
Eye Protection: Goggles/Safety Glasses Recommended.
Other Protective Equipment: As required to meet applicable OSHA Standards .

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken After Use And Upon Removal: This product as manufactured is a Silicate could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m
 $\frac{1}{2}(\text{-----})\#$
% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

DISCLAIMER: The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

PROPRIETARY MATERIAL SAFETY DATA SHEET

COTRONICS EPOXY E032

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Family:	CAS #	%
Part A Resin:		
Epoxy Resin	*	<50%
Aluminum Powder	7429-900-5	<60%
Part B Hardener:		
Proprietary	Organic Amine	

*proprietary Novalac Epoxy Resin

All materials contained within are listed on the TOSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Appearance:	Viscous silver liquid.	Odor:	Sweet odor.
Resin:			
Hardener:	Amber transparent liquid.		Ammonia odor.
Melting Or Freezing Point:			N/A
Boiling Point:			N/A
Vapor Pressure (mm Hg) :			N/A
Vapor Density (AIR=1) :			>1
Solubility In Water:			Negligible
% Volatile (By Weight):			Negligible
Specific Gravity (Water 1):			Resin 1.5-1.9 g/cc Hardener 1.2-1.9 g/cc
Evaporation Rate (Butyl Acetate=1) :			<1.0

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	>295°F.
Auto Ignition Temp:	N/A
Lower Explosion Limit (%) :	N/A
Upper Explosion Limit (%) :	N/A
Extinguishing Media:	Foam, CO ₂ , Dry.
Chemical:	Water Spray.

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact . Not absorbed in toxic amounts

Ingestion: Possibly harmful if swallowed. LD > 4000 mg/ Kg.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed, dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable.

Hazardous Polymerization: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type : Normal room ventilation.

Respiratory Protection : None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered .

Protective Gloves : Impervious.

Eye Protection : Chemical splash goggles(ANSI Z-871 or approved equivalent)

Other Protective Equipment : Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Storage: Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed.

Corrosive Material : Avoid all eye and skin contact..

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician : Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

Cotronics Instrumentation Adhesive E045 Epoxy Adhesive Part A Resin

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture

Chemical Formula: N/A

Chemical Family: Proprietary Modified Epoxy Resin*

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A

Vapor Density (Air=1) : >1

Solubility In Water: Negligible

% Volatile (By Weight) : Negligible

Specific Gravity (Water=1) : 1.5 - 2.0

Vapor Pressure (mm Hg) : N/A

Melting Or Freezing Point: N/A

Evaporation Rate (Butyl Acetate=1) : <1

Appearance/Odor: Viscous black liquid/Slight Odor

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F

Auto Ignition Temp: N/A

Lower Explosion Limit (%) : N/A

Upper Explosion Limit (%) : N/A

Extinguishing Media: Foam, CO₂, Dry

Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts

Ingestion: Possibly harmful if swallowed. LD > 4000mg/Kg.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 1 of 2

HIMS RATING Health = 1 Fire = 1 Reactivity = 1

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability : Stable

Hazardous Polymerization: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles(ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Corrosive to copper and brass on long storage.

Corrosive Material: Avoid all eye and skin contact.

Misc. Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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MATERIAL SAFETY DATA SHEET

Cotronics Instrumentation Adhesives

E045 Epoxy Adhesive

Part B Hardener

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 To 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Opaque amber liquid/Amine odor
All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat. LD₅₀ = 9.8 Mg/L ALD
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. LD₅₀ = 7500 Mg/Kg ALD
Ingestion: Possibly harmful if swallowed. LD₅₀ = 2500 Mg/Kg ALD
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

*Note all materials contained are listed on the EPA TSCA Inventory list.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

Page 2 of 2

HIMS RATING Health = 1 Fire = 1 Reactivity = 1

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Corrosive to copper and brass on long storage.

Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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MATERIAL SAFETY DATA SHEET

Cotronics Instrumentation Adhesive E094 Ceramic Adhesive

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture

Chemical Family: Silica

Chemical Formula: N/A

Part A: Powder

Refractory Ceramic Composition

Part B: Liquid Binder

Proprietary Silicate, Phosphate, Alumina, Colloid Bond

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	TVL/PEL
Part A: Powder		
Refractory Ceramic Powder	100	5 mg/ Cu M
Part B: Liquid Binder or Water		
Refractory Ceramic Colloid	0 - 30	N/A
Water	0 - 100	

B. After Normal Use See Section 8

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O=1) :	1.5 - 3	1.2 - 2.5
Percent Volatile By Volume:	20 - 50	N/A
(%) Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Creamy Paste/No Odor	Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:	N/A
Flash Point (Method Used) :	N/A
Flammable Limit:	N/A
Unusual Fire And Explosive Hazards:	LEL = N/A
Special Fire Fighting Procedures:	UEL = N/A

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability:	Stable
Incompatibility (Materials To Avoid) :	Powdered aluminum metal.
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note: Liquid is mild acid.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved*. Respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: wash hands thoroughly before eating or smoking. Avoid getting powder in body openings, including cuts, sores, mouth, etc.

Precautions To Be Taken After Use And Upon Removal: This product as manufactured may contain a Silicate. Which could transform upon heating to mullet and crystalalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula: 10 mg/cu m

½(-----)#

% Respirable quartz + 2

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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DOT ID. Number: Not Regulated

MATERIAL SAFETY DATA SHEET

Cotronics Instrumentation Adhesive E098 Ceramic Adhesive

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Chemical Family: Alumina
Chemical Formula: N/A
Refractory Ceramic Composition
Proprietary Silicate, Alumina Colloid Bond

SECTION 2: COMPOSITION INFORMATION

A. As Manufactured:	WT. %	TVL/PEL
Refractory Ceramic Powder	20 - 40	5 mg/ Cu M
Refractory Ceramic Colloid	20 - 30	5 mg/ Cu M
Water	Balance	

B. After Normal Use See Section 8

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

	As Supplied	Cured
Boiling Point (°F) :	212	N/A
Vapor Density (Air=1) :	>1	N/A
Specific Gravity Range (H₂O=1) :	1.5 - 3	1.2 - 2.5
Percent Volatile By Volume:	20 - 50	N/A
(%) Solubility In Water:	Soluble	Insoluble
Evaporation Rate (H₂O=1) :	1	N/A
Appearance/Odor:	Creamy Paste/No Odor	Solid
Vapor Pressure (mm Hg.) :	0.2 - 1.2	N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A
Flash Point (Method Used) : N/A
Flammable Limit: N/A
Unusual Fire And Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure: Slight dermatological irritation after prolonged skin contact.
Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials To Avoid) : Powdered aluminum metal
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powder and dispose in approved industrial waste container. Hose spilled wet cement paste with water, immediately. Cement is not water soluble after setting up. Note Liquid is mild acid.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) : NIOSH approved*. Respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating Or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, etc.

Precautions To Be Taken After Use And Upon Removal: This product as manufactured may contain a Silicate. Which could transform upon heating to mullet and crystobalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis). The recommended TLV/PEL for free crystalline silica is derived from the formula:

$$\frac{1}{2}(\text{-----})\#$$

$$\% \text{ Respirable quartz} + 2$$

* (Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

* (Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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MATERIAL SAFETY DATA SHEET COTRONICS EPOXY RESINS

DURALCO NM 25

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

SECTION 1: PRODUCT IDENTIFICATION

Chemical Name And Synonyms: N/A Mixture

Chemical Formula: N/A

Chemical Family: Proprietary Modified Epoxy Resin.*

SECTION 2: COMPOSITION INFORMATION

Material: Proprietary Modified Epoxy Resin

All materials contained within are listed on the TSCA Inventory list.

This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL PROPERTY INFORMATION

Boiling Point: > 400°F
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.7 - 2.1
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: < 40°F
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Amber Transparent To Viscous Black Liquids/Slight Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 295°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 5: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist or vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts

Ingestion: Possibly harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 7: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will Not Occur

SECTION 8: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 10: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage. (This product is not approved by FDA for internal use).

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DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY HARDENERS

DURALCO NM 25

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE

Chemical Name And Synonyms: N/A Mixture*
Formula: N/A
Chemical Family: Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Melting Or Freezing Point: N/A
Vapor Pressure (mm Hg) : N/A
Specific Gravity (Water=1) : 0.93 - 1.30
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Transparent amber to opaque brown liquid/Amine odor

All materials contained within are listed on the TSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Auto Ignition Temp: N/A
Lower Explosion Limit (%) : N/A
Upper Explosion Limit (%) : N/A
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat.

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact.

Ingestion: Possibly harmful if swallowed.

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 02/23/06

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Landfill or incinerate contaminated in accordance with local, state and federal regulations. Dispose of material in approved equipment.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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HIMS RATING Health = 2 Fire = 1 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

R- 450
Anti Seize

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Formula: N/A
Comments: N/A
Chemical Family: Proprietary Nickel Composition

SECTION 2: COMPOSITION INFORMATION

	CAS#	WT. %:
Nickel	744-002-0	20-30
Non Hazardous Lubricant		5-15
Non Hazardous Organic Carrier		60-70

*(1984-85 ACGIH TLV Booklet, Page 50)

All materials contained within are listed on the TOSCA Inventory list.
This product is compliant with the RoHS Directive.

SECTION 3: PHYSICAL DATA

Boiling Point (°F): 700°F
Specific Gravity Range (H₂O=1): 2.0-3.0
Vapor Pressure (mm Hg.): 0.0000086.
Vapor Density (Air=1): 10.0
Solubility in Water: 2.8 mg/l
Evaporate Rate **Negligible**
Appearance/Odor: Black Creamy Paste
No Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: All Standard Methods
Flash Point (Method Used): 390 °F
Flammable Limit: N/A
Unusual Fire and Explosive Hazards: LEL = N/A
Special Fire Fighting Procedures: UEL = N/A
Sara Section 313 Supplier Notification:

This product contains the following chemical (s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1968 and of 40 CFR 372: Nickel. Refer to the Hazardous Ingredients section of this MSDS for the appropriate CAS numbers.

DATE PREPARED: 01/01/89 **DATE REVISED:** 02/23/06

SECTION 5: HEALTH HAZARD DATA

Nickel: LD₅₀: Oral Rat > 5000 mg/kg.

IARC found there was inadequate evidence that metallic nickel is carcinogenic to humans but since there was sufficient evidence that is carcinogenic to animals, IARC concluded that metallic nickel is possibly carcinogenic to humans. Epidemiological studies of workers exposed to nickel powder and to dust and fumes generated in the production of nickel alloys and of stainless steel have not indicated the presence of a significant respiratory cancer hazard.

Effects Of Overexposure: *Skin Contact:* Repeated contact with metallic nickel can cause nickel sensitivity and allergic skin rashes.

Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.

SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable
Incompatibility (Materials To Avoid): N/A
Hazardous Decomposition Products: None
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up spilled powders and dispose in approved industrial waste container. Hose spilled liquids or mixed adhesive with water, immediately. 950,952, 954 adhesives are not water soluble after drying.

Waste Disposal Method: Approved industrial waste disposal means.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): NIOSH approved*. Respirators recommended for spray applications.

Ventilation: Local Exhaust: Vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter is the exhaust is discharged into the workplace.

Protective Gloves: Recommended.

Eye Protection: Recommended.

Other Protective Equipment: Rubber aprons, lab coats, etc. to protect clothing.

SECTION 9: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep container closed and avoid getting wet until ready to use.

Other Precautions: Wash Hands Thoroughly Before Eating or Smoking. Avoid Getting Powder In Body Openings, Including Cuts, Sores, Mouth, Etc. Use With Adequate Ventilation. Avoid Repeated Skin Contact. Wash Skin Thoroughly After Handling.

*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

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HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET

COTRONICS CORPORATION

DURALCO T 507 RESIN

Manufactures Name: COTRONICS CORPORATION
3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture
Chemical Formula: N/A
Chemical Family: Proprietary Modified Epoxy Resin

Use with Cotronics' type two hardeners.

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A
Vapor Density (Air=1) : >1
Solubility In Water: Negligible
% Volatile (By Weight) : Negligible
Specific Gravity (Water=1) : 1.3 - 1.9
Vapor Pressure (mm Hg) : N/A
Melting Or Freezing Point: N/A
Evaporation Rate (Butyl Acetate=1) : <1
Appearance/Odor: Amber Transparent Liquid To Viscous White.
All materials contained within are listed on the TOSCA Inventory list.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >295°F
Auto Ignition Temp: N/D
Lower Explosion Limit (%) : N/D
Upper Explosion Limit (%) : N/D
Extinguishing Media: Foam, CO₂, Dry
Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:
Inhalation: Mist or vapor can irritate the nose and throat.
Eye Contact: Substantially irritating to eyes.
Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. Not absorbed in toxic amounts.
Ingestion: Possibly harmful if swallowed. LD > 4000 mg/Kg.
Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

DATE PREPARED: 11/01/85

DATE REVISED: 05/05/05

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.
Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.
Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable
Hazardous Polymerization: Will Not Occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).
Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.
Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.
Protective Gloves: Impervious.
Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).
Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Corrosive to copper and brass on long storage.
Corrosive Material: Avoid all eye and skin contact.
Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.
Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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HIMS RATING Health = 1 Fire = 0 Reactivity = 0

HAZARD RATING: 0 = Insignificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme

MATERIAL SAFETY DATA SHEET COTRONICS EPOXY HARDENERS

DURALCO T 507 HARDENER

Manufactures Name: COTRONICS CORPORATION

3379 Shore Parkway Brooklyn, NY 11235
Emergency Telephone Number: 718-646-7996

SECTION ONE:

Chemical Name And Synonyms: N/A Mixture*

Formula: N/A

Chemical Family: Amine Complex

SECTION 2: PHYSICAL PROPERTY INFORMATION

Boiling Point: N/A

Vapor Density (Air=1) : >1

Solubility In Water: Negligible

% Volatile (By Weight) : Negligible

Melting Or Freezing Point: N/A

Vapor Pressure (mm Hg) : N/A

Specific Gravity (Water=1) : .8 - 1.4

Evaporation Rate (Butyl Acetate=1) : <1

Appearance/Odor: Opaque amber liquid/Amine odor

All materials contained within are listed on the TOSCA Inventory list.

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 200°F

Auto Ignition Temp: N/A

Lower Explosion Limit (%) : N/A

Upper Explosion Limit (%) : N/A

Extinguishing Media: Foam, CO₂, Dry

Chemical: Water Spray

SECTION 4: HEALTH HAZARD DATA

Effects Of Overexposure:

Inhalation: Mist/Vapor can irritate the nose and throat. LD₅₀ = 9.8 Mg/L ALC

Eye Contact: Substantially irritating to eyes.

Skin Contact: Substance is moderately irritating and can cause superficial burns after prolonged contact. LD₅₀ = 7500 Mg/Kg ALD

Ingestion: Possibly harmful if swallowed. LD₅₀ = > 2500 Mg/Kg ALD

Delayed Effects: Prolonged or repeated exposure can cause allergic reaction.

* *Note all materials contained are listed on the EPA TOSCA Inventory list.*

DATE PREPARED: 11/01/85

DATE REVISED: 08/05/03

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Eye And Skin Contact: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

Ingestion: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY INFORMATION

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION 7: SPILL OR LEAK PROCEDURES

Dike and absorb spill on inert material (sand, earth, etc.). Transfer diking material to containers for disposal. Wear protective clothing. Use breathing apparatus (MSHA/NIOSH approved, pressure-demand, self-contained) or air mask for large spills in confined area. Wash clothing before reuse. Destroy clothing that cannot be decontaminated (i.e. Shoes).

Waste Disposal Methods: Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material in accordance with local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation Type: Normal room ventilation.

Respiratory Protection: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH approved or equivalent) suitable for concentrations and types of air contaminants encountered.

Protective Gloves: Impervious.

Eye Protection: Chemical splash goggles (ANSI Z-871 or approved equivalent).

Other Protective Equipment: Eyewash facility.

SECTION 9: SPECIAL PRECAUTIONS

Store away from excessive heat (e.g., steam-pipes, radiators, from sources of ignition, and from reactive materials). Do not store near food or feed. Avoid all eye and skin contact.

Misc Info: The use of this and auxiliary materials should be confined to designated work areas. Emptied containers may still contain hazardous residues.

Note To Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed even weeks or months after frequent and/or prolonged contact. Acute effects can include mucosa damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosa damage may contraindicate the use of gastric lavage.

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