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Material Safety Data Sheet Cyberpoxy 5030 Resin and Hardener

Revision Date: 01/02/09

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1. Chemical Product and Company Identification:

Product Name: Cyberpoxy 5030 Resin
Product Type: Epoxy Resin

2. Composition, Information on Ingredients:

| <u>Hazardous component</u> | <u>CAS Number</u> | <u>%</u> |
|------------------------------------|-------------------|----------|
| Bisphenol A Diglycidyl Ether Resin | 25068386 | 20-50 |

There are no exposure limits associated with this chemical.

3. Hazards Identification:

| | |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Toxicity: | Moderate skin and Eye Irritant. |
| Primary Routes of Entry: | Eye, skin contact. |
| Signs and symptoms of Exposure: | Contact at elevated temperatures can cause thermal burns which may result in permanent damage to skin and eyes. |
| Existing conditions aggravated by exposure: | Preexisting eye and skin disorders. |

4. First Aid Measures:

| | |
|---------------|---------------------------------------------------------------------------------------------------------------------|
| Ingestion: | Do not induce vomiting. Obtain medical attention. |
| Inhalation: | Remove person to fresh air. Administer oxygen if breathing is difficult. Get medical attention if symptoms persist. |
| Skin Contact: | Remove contaminated clothing. Flush skin with water for 15 minutes. Wash affected area with soap and water. |
| Eye Contact: | Flush with warm water for 20 minutes while gently holding the eyelids open. Obtain immediate medical attention. |

5. Fire Fighting Measures:

| | |
|----------------------|---------------------------------------|
| Flash Point | >400°F |
| Extinguishing Media: | Foam, Dry Chemical, or Carbon Dioxide |

Material Safety Data Sheet

Cyberpoxy 5030 Resin and Hardener

Unusual Fire or Explosion Hazards: Heating above 300°F in the presence of air
May cause slow oxidative decomposition and
Above 500°F may cause polymerization.
Personnel in the vicinity and downwind should
be evacuated.

Special Firefighting Procedures: Material will not burn unless preheated. Wear
self-contained breathing apparatus and
protective clothing. Cool fire exposed
containers with water.

Hazardous Products Formed by Fire
Or Thermal Decomposition: Emits fumes of chloride, carbon monoxide, and
other fumes and vapors varying in composition
and toxicity.

6. Accidental Release Measures:

Steps to be taken in case of
spill or leak: Avoid personal contact. Soak up with inert
absorbent such as clay or sand. Store in a
partly filled, closed container until disposal.
Flush area with water to remove trace residue.
Prevent spill from entering drainage/ sewer
systems.

7. Handling and Storage:

Safe storage: Store in a cool dry area away from high
temperatures and flames.

Handling: Avoid contact with skin and eyes.

8. Protective Equipment:

Eye Protection: Safety glasses or goggles with side shields.

Skin: Rubber, polyethylene, or neoprene gloves.

Ventilation: Local exhaust preferred although good general
mechanical ventilation is adequate except for
confined areas.

Material Safety Data Sheet

Cyberpoxy 5030 Resin and Hardener

Respiratory Protection: If used in a confined area use NIOSH approved respirator with organic vapor cartridges.

9. Physical and Chemical Properties:

Appearance: Clear Viscous Liquid
Odor: Mild
Boiling Point: Greater than 500°F
Vapor Pressure: Less than 0.03mmHg @171°F
Vapor Density: >1 (air = 1)
Evaporation Rate: Not Applicable
Specific Gravity: 1.17
Solubility in Water: Negligible

10. Stability and Reactivity:

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong Lewis or mineral acids and bases, strong oxidizing agents.

11. Toxicological Information:

Oral LD50(rat) 11.4 g/kg
Dermal LD50(rabbit) >20 ml/kg
Inhalation LC50, 4 hours(rat) No deaths in saturated air

12. Ecological Information: No Data

13: Disposal Considerations:

Incinerate or dispose of in an approved landfill in accordance with local and EPA regulations. Not a RCRA Hazardous waste.

Material Safety Data Sheet

Cyberpoxy 5030 Resin and Hardener

14. Transportation Information:

Domestic Ground Transport

Proper Shipping Name: Non-regulated

Hazard Class or Division: N/A

Identification Number: N/A

Marine Pollutant: No

15. Regulatory Information:

TSCA : All ingredients on the United States TSCA inventory.
Canadian Regulations: WHMIS Hazard Class D2B
All components are on the DSL

16: Other Information:

| Hazard | NFPA Hazard Code® | HMIS Hazard Code® |
|-----------------|-------------------|-----------------------------------|
| Health | 2 | 2 |
| Fire | 1 | 1 |
| Reactivity | 1 | 1 |
| Specific Hazard | None | Personal Protection See Section 8 |

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Material Safety Data Sheet

Cyberpoxy 5030 Resin and Hardener

Revision Date: 01/02/09

1. Chemical Product and Company Identification:

Product Name: Cyberpoxy 5030 Hardener
Product Type: Epoxy Hardener

2. Composition, Information on Ingredients:

| <u>Hazardous component</u> | <u>CAS Number</u> | <u>%</u> |
|----------------------------------------|-------------------|----------|
| Polyamide-Polymercaptan Epoxy Hardener | Trade Secret | 90-100 |

This chemical has no documented exposure limits

3. Hazards Identification:

| | |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity: | Eye, skin, and respiratory irritant. |
| Primary Routes of Entry: | Eye, skin contact. Inhalation |
| Symptoms of acute over-exposure: | Prolonged contact may cause dermatitis with sensitive individuals. Can cause severe irritation with possible eye damage or blindness. Sensitization and delayed lung effects. |
| Existing conditions aggravated by exposure: | May aggravate existing skin, eye and lung conditions. |

4. First Aid Measures:

| | |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Ingestion: | Do not induce vomiting. Administer 3-4 glasses of milk or water. Obtain immediate medical attention. |
| Inhalation: | Remove to fresh air. Administer oxygen if breathing is difficult. Get Medical attention if symptoms persist. |
| Skin Contact: | Remove contaminated clothing. Flush affected area with water for 15 minutes. Wash with soap and Water. Call physician if irritation develops. |
| Eye Contact: | Flush with warm water for 20 minutes. Obtain immediate medical attention. |

5. Fire Fighting Measures:

Material Safety Data Sheet

Cyberpoxy 5030 Resin and Hardener

Flash Point >200°F
Extinguishing Media: Foam, Dry Chemical, Water or Carbon Dioxide

Unusual Fire or Explosion Hazards: Personnel in vicinity and downwind should be evacuated.

Special Firefighting Procedures: Wear full bunker gear, self-contained breathing apparatus and protective clothing. Cool fire exposed containers with water.

Hazardous Products Formed by Fire Or Thermal Decomposition: Oxides of carbon, sulfur, and nitrogen; ammonia and other organic substances may be formed during combustion.

11. Accidental Release Measures:

Steps to be taken in case of spill or leak: Avoid personal contact. Soak up with inert absorbent. Store in a partly filled, closed container until disposal. Flush area with water to remove trace residue. Prevent spill from entering drainage/ sewer systems.

7. Handling and Storage:

Safe storage: Store below 100°F. Store in a cool, dry area away from high temperatures and flames.

Handling: Avoid contact with skin, eyes and clothing.

8. Protective Equipment:

Eye Protection: Safety glasses or goggles with side shields.

Skin: Chemical-resistant rubber gloves.

Ventilation: Local exhaust preferred although good general mechanical ventilation is adequate except for confined areas.

Respiratory Protection: None needed with normal use with proper ventilation. In areas of poor ventilation use NIOSH approved organic vapor cartridges for uncured resin.

Material Safety Data Sheet

Cyberpoxy 5030 Resin and Hardener

9. Physical and Chemical Properties:

| | |
|--------------------------|---------------------------------------|
| Appearance: | Clear to slight yellow viscous liquid |
| Odor: | Mercaptan odor |
| Boiling Point: | Not determined |
| Vapor Pressure: | <<1mmHg at 70°F |
| Vapor Density: | Not determined |
| Evaporation Rate: | Not determined |
| Specific Gravity: | 1.13 |
| Solubility in Water: | Negligible |
| VOC | 0 g/L |
| pH(5% solution in water) | 9.5 |

12. Stability and Reactivity:

| | |
|---------------------------|-------------------------------------|
| Stability: | Stable |
| Hazardous Polymerization: | Will not occur |
| Incompatibility: | Strong oxidizing agents and amines. |

11. Toxicological Information: See Section 3

12. Ecological Information: No Data

13: Disposal Considerations:

Disposal Procedures: Incinerate or dispose of in an approved landfill in accordance with local and EPA regulations. Not a RCRA Hazardous waste.

14. Transportation Information:

Domestic Ground Transport
Proper Shipping Name: Non-regulated
Hazard Class or Division: N/A

Identification Number: N/A
Marine Pollutant: No

15. Regulatory Information:

CA Proposition 65: None

Material Safety Data Sheet

Cyberpoxy 5030 Resin and Hardener

TSCA: All ingredients are listed or are exempt from listing.

SARA 312: Immediate health hazard; delayed health hazard

Canadian Regulations: WHMIS Hazard Class D2B

16: Other Information:

| Hazard | NFPA Hazard Code® | HMIS Hazard Code® |
|-----------------|-------------------|-----------------------------------|
| Health | 3 | 3 |
| Fire | 1 | 1 |
| Reactivity | 1 | 1 |
| Specific Hazard | None | Personal Protection See Section 8 |

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