



1 - PRODUCT and COMPANY INFORMATION

Company Info: iCOAT Products, Inc. www.icoatproducts.com
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Hazmat: For emergencies Call HAZMAT Services (24hours): (800) 373-7542
SDS Format: According to ANSI Z400.1-2004

Product Name: CT60 & CT30 iPoxy - Resin (Part A)
Product Class: Epoxy Resin

HMIS Classification: H F R PP
 1 1 0 x
 * Chronic Health Effects

2 - COMPOSITION INFORMATION

| Chemical Name – Reaction product of epichlorohydrin | Cas # | Ingredient Percent |
|---|-------------|--------------------|
| Bisphenol A | 025085-99-8 | 100% |

3 - HAZARDS IDENTIFICATION

Emergency Overview: Irritant

Potential Health Effects

Target Organs: Eye, Skin Contact, Inhalation, Ingestion.

Eye: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

Skin: Has caused allergic skin reactions in humans. Prolonged exposure not likely to cause significant skin irritation

Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation

Ingestion: Small amounts incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that maybe harmful. May cause vomiting.

Chronic Health Effects: A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

Aggravation of Pre-Existing Conditions: None generally recognized.

Cancer Information: Several studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEbPA) -based epoxy resins. In one of these, a DGEbPA-based resin (containing high levels of several impurities, including a known animal skin carcinogen) was reported to produce a weak carcinogenic response in the skin of one of two strains of mice tested. Recent studies have suggested slight increases in two systemic tumor types following repeated application of certain DGEbPA-containing resins (or pure DGEbPA), although the response was not uniform among practically identical resins. Based on these data, and the other studies which have not shown cancer, the cause-effect relationship between DGEbPA-treatment and these tumor increases is questionable. Indeed, a recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEbPA is not classifiable as to its carcinogenicity.

Teratology (Birth Defects): DGEbPA did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.



Reproductive Effects: DGE BPA did not interfere with reproduction in animal studies.

Mutagenicity (Effects on Genetic Material): Animal mutagenicity studies were negative. In vitro mutagenicity studies were negative in some cases and positive in others.

4 - FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for 15 – 20 minutes. Get medical attention immediately.

Skin Contact: Immediately remove contaminated clothing and shoes. Under a safety shower, flush skin thoroughly with large amounts of running water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Discard or decontaminate clothing and shoes before re-use. Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: Induce vomiting if large amounts are ingested. Consult medical personnel. Do not give anything by mouth to an unconscious or convulsing person.

Note to Physician: No specific antidote. Supportive care. Treatment based on judgment of physician in response to reactions of patient.

5 - FIRE FIGHTING MEASURES

Fire or Explosive Hazards: None

Flash Point: 207.2° C : (405° F) (PMCC ASTM D-93)

Lower Flammable / Explosive Limit: N/A

Upper Flammable / Explosive Limit: N/A

Extinguishing Media: Foam, CO₂, Dry Chemical

Protective Equipment: As in any fire, wear Self –Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

Hazardous Combustion Products: Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to phenolics, carbon monoxide and carbon dioxide.

6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Use proper personal protective equipment as listed in Section 8.

Environmental Precautions: Avoid runoff into storm sewers, ditches and waterways.

Spill Cleanup Measures: Absorb spill with inert material (e.g., dry sand or earth) or polypropylene or polyethylene fiber products, then place in a chemical waste container. Provide ventilation. The residue can be removed with hot soapy water. Use of methylene chloride, acetone, or aromatic solvents in clean up poses a distinct hazard and therefore, should be avoided. Clean up spills immediately observing precautions in the protective equipment section.

7 - HANDLING AND STORAGE

Handling: Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing.

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use.

Hygiene Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION – EXPOSURE GUIDELINES

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective



equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of personal protective equipment.

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|--------------------------------|---|
| Eye/Face Protection: | Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166 |
| Skin Protection: | Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing. |
| Respiratory Protection: | No respiratory protection should be needed. |
| Other Protective: | Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. |
| EXPOSURE GUIDELINES: | None Established |

9 - PHYSICAL and CHEMICAL PROPERTIES

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| Physical State Appearance: | Clear Liquid of medium viscosity |
| Odor: | Mild epoxy |
| Color: | Colorless to slight yellow |
| Boiling Point: | No Data |
| Melting Point: | No Data |
| Density: | 8 – 10 lbs. / Gallon |
| Specific Gravity: | 1.16 |
| Vapor Pressure: | Not Applicable |
| Vapor Density: | Not Applicable |
| Solubility in Water: | None |
| Flash Point: | 207.2° C : (405° F) (PMCC ASTM D-93) |

10 - STABILITY and REACTIVITY

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| Chemical Stability: | Stable under recommended storage conditions. See Storage, Section 7. |
| Conditions to Avoid: | Potentially violent decomposition can occur above 350C (662F). Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid. |
| Incompatibility with Other Materials: | Avoid contact with oxidizing materials, acids and bases. Avoid unintended contact with amines. |
| Hazardous Decomposition Products: | Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide and water. |
| Hazardous Polymerization: | Will not occur by itself. Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build up. |

11 - TOXICOLOGICAL INFORMATION

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| Skin: | Skin – Rabbit LD50 : 20,000 mg/kg/ 24H; |
| Ingestion: | Ingestion – Rat LD50: > 500 mg/kg/ 24H; |
| Mutagenicity: | Animal mutagenicity studies were negative. In vitro mutagenicity studies were negative in some cases and positive in others. |

12 - ECOLOGICAL INFORMATION

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| Ectotoxicity: | Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species). Acute LC50 for water flea Daphnia magna is 1.3 mg/L. Acute LC50 for fathead minnow (Pimephales promelas) is 3.1 mg/L. Toxicity to aquatic species occurs at concentrations greater than water solubility. Maximum acceptable toxicant concentration (MATC) in water flea Daphnia magna is 0.55 mg/L. |
|----------------------|---|



Growth inhibition threshold in bacteria is > 42.6 mg C/L. Inhibitory concentration (IC50) in OECD Activated Sludge Respiration Inhibition Test (OECD Test No. 209) is >100 mg/L.

Environmental Fate:

Movement & Partitioning: Bioconcentration potential is moderate. (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (KOC between 500 and 2000). Measured log octanol / water partition coefficient (Log Pow) is 3.7 – 3.9. Soil organic carbon / water partition coefficient (Koc) is estimated to be 1800 – 4400. Henry's Law Constant (H) is estimated to be <6.94E-09 atm-m3/mole. Log octanol / water partition coefficient (Log Pow) is estimated, using structural fragment method, to be 3.84.

Degradation & Persistence: Theoretical oxygen demand (thOD) is calculated to be 2.35 p/p. In the atmospheric environment, material is estimated to have tropospheric half-life of 1.92 hr. Biodegradation reached in modified Zahn-Wellens/EMPA Test (OECD Test No. 302B) after 28 days: 12%. 20-day biochemical oxygen demand (BOD20) is <2.5%

13 - DISPOSAL CONSIDERATIONS

Waste Disposal:

Do not dump into any sewers, on the ground, or into any body of water. Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waster prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and / or state and local guidelines.

14 - TRANSPORTATION INFORMATION

DOT UN Number:

No Data

DOT Hazard Class:

No Data

15 - REGULATORY INFORMATION

Notice:

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. Regulations:

Sara 313 Information:

This product has been reviewed according to the EPA "Hazard Categories" promulgated under sections 311 and 312 of the Superfund Amendment and Reauthorization ACT of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories.

An immediate health hazard

This product is categorized as "an immediate health hazard due to the potential for allergic skin reaction."

Toxic Substances Control Act (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA Inventory

OSHA Hazard Communication Standard:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Canada Regulations:

WHMIS Information:

The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:
D2B – Skin Sensitizer (refer elsewhere in MSDS for specific warnings and safe handling information).

CPR Statement:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Hazardous Products Act Information:

This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14): (Cont'd on next page)



| Chemical Name – Reaction product of epichlorohydrin | Cas # | Ingredient Percent |
|---|-------------|--------------------|
| Bisphenol A | 025085-99-8 | 100% |

Canadian Environmental Protection Act (CEPA): All substances in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16 - ADDITIONAL INFORMATION

HMIS Health Hazard: 1
HMIS Fire Hazard: 1
HMIS Reactivity: 0
HMIS Other: x
SDS Creation Date: June 26, 2006
SDS Revision Date: January 1, 2018
SDS Revision Notes: SDS Update
SDS Author: iCOAT Products, Inc.

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