

U-571 Part A

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: U-571 Part A
Common Name: Epoxy Novolac resin
SDS Number: I29
Revision Date: 6/7/2015
Product Use: Protective epoxy coating.
Supplier Details: Coatings For Industry, Inc.
319 Township Line Road
Souderton, PA 18964
Emergency: Infotrac
Contact: USA: 1-800-535-5053 / International :352-323-3500
Phone: 215-723-0919
Fax: 215-723-0911
Email: cs@cficoatings.com
Web: www.cficoatings.com

2 HAZARDS IDENTIFICATION**Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Environmental, Hazards to the aquatic environment - Acute, 2
Health, Skin corrosion/irritation, 2
Health, Acute toxicity, 4 Dermal
Health, Acute toxicity, 4 Inhalation
Health, Acute toxicity, 4 Oral

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:

**GHS Hazard Statements:**

H401 - Toxic to aquatic life
H315 - Causes skin irritation
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H302 - Harmful if swallowed

GHS Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash _ thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352 - IF ON SKIN: Wash with soap and water.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.
P332+313 - If skin irritation occurs: Get medical advice/attention.

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P362 - Take off contaminated clothing and wash before reuse.

P501 - Dispose of contents/container in compliance with all Federal, State/Provincial and local laws

Hazards not otherwise classified (HNOC) or not covered by GHS

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| Route of Entry: | Skin contact, and Eye contact. |
| Target Organs: | Eyes, skin , respiratory system |
| Inhalation: | The low vapor pressure of the resin makes inhalation unlikely in normal use. |
| Skin Contact: | - Moderate irritant. Contact at elevated temperatures can cause thermal burns. May cause skin sensitization (rashes, hives). Prolonged skin contact is unlikely to result in absorption of harmful amounts. |
| Eye Contact: | Moderate to severe irritant. Contact at elevated temperatures can cause thermal burns. |

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

| Cas# | % | Chemical Name |
|------------|--------|---|
| 25085-99-8 | 35-50% | Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers |
| 84852-15-3 | 0-10% | Phenol, 4-nonyl-, branched |
| 100-51-6 | 0-10% | Benzyl alcohol |
| 13463-67-7 | 20-30% | Titanium dioxide |
| 68187-64-4 | 0-10% | Nepheline syenite |
| 28064-14-4 | 20-25% | Phenol, polymer with formaldehyde, glycidyl ether |

4 FIRST AID MEASURES

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| Inhalation: | If affected, remove to fresh air. If not breathing, give artificial respiration. |
| Skin Contact: | Wash the affected area thoroughly with plenty of water and soap. |
| Eye Contact: | Immediately flush eyes with plenty of clean water for an extended time, not less than five (5) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. |
| Ingestion: | DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual. |

5 FIRE FIGHTING MEASURES

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| Flash Point: | Greater than 200F |
| Hazardous gases/vapors produced in fire are carbon monoxide, carbon dioxide, phenolics. | |
| Extinguishing Media: Water, foam, dry chemical, CO2. | |
| Fire Fighting Instructions: | |
| Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. During a fire irritating, highly toxic gases may be generated by thermal decomposition or combustion. (See Section VIII) Emits toxic fumes under fire conditions. Isolate from heat, electrical equipment, sparks, and open flame. Closed container may explode when exposed to extreme heat. Wear neoprene gloves when handling refuse from fire. | |

6 ACCIDENTAL RELEASE MEASURES**Containment Techniques**

Contain spill.

Clean-Up Techniques

Wear proper personal protective clothing and equipment.

Do not flush liquid into public sewer, water systems or surface waters.

Soak up large spill residue and small spills with an inert absorbent. Place into labeled, closed container; store in safe location

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to await disposal. Wash the spill area with soap and water. Dispose of in accordance with national and local regulations. Change contaminated clothing and laundry before reuse.
CAUTION: Spilled liquid and dried film may be slippery. Use care to avoid falls.

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| 7 | HANDLING AND STORAGE |
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| Handling Precautions: | <p>Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Provide eyewash fountains and safety showers in the work area. Use under well ventilated conditions.</p> |
| Storage Requirements: | <p>Do not store in open, unlabeled or mislabeled containers. Do not allow product to freeze. Do not puncture or stack drums. Keep container closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.</p> |

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| 8 | EXPOSURE CONTROLS/PERSONAL PROTECTION |
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| Engineering Controls: | <p>Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS. Ventilation guidelines/techniques may be found in publications such as Industrial Ventilation: American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH, 45240 1634, USA.</p> |
| Personal Protective Equipment: | <p>Eye/Face Protection Wear eye protection (chemical goggles or goggles and an 8-inch (minimum) full face shield where spilling and splashing may occur).</p> <p>Skin Protection Wear chemical resistant (impervious) gloves.</p> <p>Respiratory Protection Wear a respirator approved by NIOSH/MSHA (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the exposure limit(s) of any chemical substance listed in this MSDS. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).</p> |

Components with workplace control parameters:

Benzyl alcohol (100-51-6) [0-10%]
 TWA 10 ppm USA. Workplace Environmental Exposure Levels (WEEL)

Titanium Dioxide (13463-67-7) [20-30%]
 TWA 15mg/m³ 8hr. OSHA/PEL

Nepheline Syenite (37244-96-5) [0-10%]
 TWA 5mg/m³ 8hr. OSHA/PEL

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9 **PHYSICAL AND CHEMICAL PROPERTIES**

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| Appearance: | Opaque | Odor: | Slight odor |
| Physical State: | Liquid | Solubility: | Negligible in water |
| Spec Grav./Density: | 1.35-1.45 | Percent Volatile: | 0 |

10 **STABILITY AND REACTIVITY**

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| Chemical Stability: | This product is stable |
| Conditions to Avoid: | Heating above 300 ° F in the presence of air may cause slow oxidation decomposition and above 662 ° F may cause potentially violent decomposition. |
| Materials to Avoid: | Strong oxidizers, acids, bases, and epoxy hardeners under uncontrolled conditions. |
| Hazardous Decomposition: | Decomposition or combustion may generate irritating vapors, CO, CO ₂ , Phenolics. |
| Hazardous Polymerization: | Hazardous polymerization will not occur. |

11 **TOXICOLOGICAL INFORMATION**

Benzyl alcohol (100-51-6) [0-10%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 1,230 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Excitement. Behavioral:Coma.

Inhalation: no data available

LD50 Dermal - rabbit - 2,000 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Irritating to skin. - 24 h

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: DN3150000

Central nervous system depression
Liver - Irregularities - Based on Human Evidence

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| 12 | ECOLOGICAL INFORMATION |
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Benzyl alcohol (100-51-6) [0-10%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Lepomis macrochirus* (Bluegill) - 10 mg/l - 96 h.

Toxicity to daphnia and EC50 - *Daphnia magna* (Water flea) - 55 mg/l - 24 h.
other aquatic invertebrates

Persistence and degradability: Biodegradability Biotic/Aerobic - Exposure time 28 d Result: 92 - 96 % - Readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

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| 13 | DISPOSAL CONSIDERATIONS |
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| 14 | TRANSPORT INFORMATION |
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This product is not regulated for ground or air transportation.

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| 15 | REGULATORY INFORMATION |
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Component (CAS#) [%] - CODES

Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer (25085-99-8) [50-60%] TSCA

Phenol, 4-nonyl-, branched (84852-15-3) [0-10%] TSCA

Benzyl alcohol (100-51-6) [0-10%] HAP, MASS, PA, TSCA

Titanium dioxide (13463-67-7) [20-30%] MASS, OSHAWAC, PA, TSCA, TXAIR

Nepheline syenite, manganese zirconium brown (68187-64-4) [0-10%] TSCA

Phenol, polymer with formaldehyde, glycidyl ether (28064-14-4) [20-22%] TSCA

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

PA = PA Right-To-Know List of Hazardous Substances

OSHA = OSHA Workplace Air Contaminants

TXAIR = TX Air Contaminants with Health Effects Screening Level

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| 16 | OTHER INFORMATION |
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