

MATERIAL DATA SAFETY SHEET

1. CHEMICAL PRODUCT IDENTIFICATION

PRODUCT NAME - FLAG RESIN

AKA Code #FLAG032, FLAG064, FLAG1G, F;AG4G, FLAG5G, FLAG15G, FLAG30G, FLAG55G

PRODUCT CLASS / COMMON NAME - Epoxy Resin PRODUCT TYPE: Liquid Resin

PRODUCT SIGNAL WORD Warning

PRODUCT HAZARDS Possible Sensitizer

MANUFACTURER - Phoenix Resins, Inc.

2615 River Road #3A

Cinnaminson, NJ



08077

EMERGENCY NUMBERS - 1-888-627-3769 (company)

CHEMTREC -1- 800-424-9300

2. COMPOSITION / INFORMATION On INGREDIENTS

DESCRIPTION - The exact chemical identity of this component is a trade secret. This component is composed of DEG BPA epoxy, Novalack epoxy and proprietary reactive epoxy diluents.

CAS NUMBER - NA

EXPOSURE LIMITS - TLV and PEL - Not Established

LD50 ORAL - 5000 mg/kg (rat)

LC50 INHALATION - 2000 mg/kg (rabbit)

3. HAZARDS IDENTIFICATION

CHRONIC EFFECTS - Skin Sensitization (dermatitis)

EYE - Will cause moderate eye irritation

INHALATION - Unlikely except at elevated temps. May cause an allergic reaction

SKIN ABSORPTION - Not likely to be absorbed through skin

SKIN CONTACT - Possible skin irritant/ sensitivity

INGESTION - Will cause illness

HMIS HAZARD RATING

HEALTH 1 FLAMMABILITY 1 REACTIVITY 0 PERS. PROTECT. C

NFPA HAZARD RATING

HEALTH 1 FLAMMABILITY 1 REACTIVITY 0

CARCINOGENICITY - Not listed as an IARC, OSHA or ACGIH potential carcinogen

SPECIAL PROCEDURES IN HANDLING AND STORAGE - Emergency eyewash stations and safety showers must be close to any area of possible exposure.

4. FIRST AID MEASURES

EYES - Flush with water immediately. Continue to flush for 30 minutes and obtain emergency medical attention.

SKIN - Remove and do not reuse contaminated clothing. Wash exposed areas thoroughly with soap and water and flush for ten (10) minutes. It is not recommended to remove Resin from skin with solvents. Solvents only increase contact and dry the skin.

INGESTION - Induce vomiting only if person is conscious Obtain emergency medical help.

INHALATION- Remove to fresh air. If breathing is labored administer oxygen. Call physician.

5. FIREFIGHTING MEASURES

FLAMMABILITY CLASSIFICATION - Combustible Liquid, Class IIIB

FLASH POINT >230°F Flash Closed Cup

LOWER EXPLOSIVE LIMITS N/A

EXTINGUISHING MEDIA Foam, water fog, dry chemical - carbon dioxide preferred

FIRE & EXPLOSIVE HAZARDS When mixed with strong acids (organic or inorganic), strong oxidizing agents and bases

SPECIAL FIREFIGHTING PROCEDURES - Use self contained breathing apparatus and impervious turn out gear.

6. ACCIDENTAL RELEASE MEASURES

IN THE EVENT OF A SPILL - - Remove all possible sources of ignition or polymerization (see Section 5). Equip personnel with proper protection (see Section 7) Dike the spill to prevent from spreading. Collect for disposal. Use absorbent to soak up remainder of liquid. material will float on water. May be covered with foam or water fog if danger of ignition exists. Notify authorities as required by law.

WASTE DISPOSAL METHOD - Remove contaminated materials for disposal at a permitted facility using registered transports. Dilute aqueous waste is biodegradable. Incineration is the preferred method of disposal.

7. HANDLING, STORAGE AND PERSONAL PROTECTION

VENTILATION - Use and store only with adequate ventilation or use respiratory protection

RESPIRATORY - If vapors are present, use a NIOSH/MSHA approved positive pressure, supplies air respirator.

EYE PROTECTION - If potential for splashing is present, splash goggles or a full face shield should be worn.

SKIN PROTECTION - DO NOT ALLOW SKIN CONTACT. If potential skin contact is present, impervious protection clothing should be worn. Neoprene coated fabric is recommended for this application.

8. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------|-----------------------------------|
| VAPOR DENSITY - | Heavier than air |
| VAPOR PRESSURE | <1 mm Hg at 25°C |
| SOLUBILITY IN WATER | Negligible |
| APPEARANCE | Clear, pale yellow viscous liquid |
| ODOR - | Very aromatic |

9. STABILITY AND REACTIVITY

| | |
|--------------------------------------|--|
| STABILITY | Stable, will react with amines |
| HAZARDOUS POLYMERIZATION | Will autopolymerize at very high temperatures |
| HAZARDOUS DECOMPOSITION PRODUCTS | Fumes, carbon dioxide, carbon monoxide, acrid smoke phenolics, aldehydes |
| CONDITIONS TO AVOID | High heat, amines, strong oxidizers, acids and bases |
| INCOMPATIBILITY (Materials to Avoid) | Strong acids, bases and oxidizers |

10. TRANSPORTATION AND REGULATORY INFORMATION

| | |
|-------------------------------------|---|
| DOT 49CFR172.101-102 CLASSIFICATION | Not Hazardous |
| DOT SHIPPING NAME | Not Regulated |
| PROPOSITION 65 - | This product may contain trace amounts of epichlorohydrin and phenol glyoldyl ether which are known to the state of California to cause cancer. |
| TCSA - | On 40CFR710 Section 8b Chemical Substances Inventory and Canadian Domestic Substances List |
| SARA/ TITLE III - Section 311/312 | Not Hazardous Section 313 Listed Chemicals None |
| CERCLA - | Not subject to any special reporting requirements WHMIS D2B |

This information contained above is given in good faith based on the best data available at this time. No warranty, expressed or implied is made. User assumes full responsibility for determining appropriate use and application of this product. For further information call Phoenix Resins 1-888-627-3769.

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