SAFETY DATA SHEET

Safety Data Sheet

Date Prepared : 07/12/2016
SDS No : 125490

Standard Epoxy Resin

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Standard Epoxy Resin
GENERAL USE: Epoxy side of a 2 component product.
PRODUCT DESCRIPTION: Epoxy Resin
PRODUCT CODE: 125490

MANUFACTURER

Fiberglass Coatings Inc.
4301A 34th Street North
St. Petersburg, FL 33714
Customer Service: (800) 272-7890
E-Mail: www.fgci.com
Emergency Contact: Chem-Tel
Emergency Phone: (800) 255-3924

24 HR. EMERGENCY TELEPHONE NUMBERS

Chem-Tel (800) 255-3924

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Irritation, Category 2
Eye Irritation, Category 2A
Skin Sensitization, Category 1B

Environmental:

Acute Hazards to the Aquatic Environment, Category 2
Chronic Aquatic Toxicity, Category 2

GHS LABEL

Exclamation mark

Environment

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H319: Causes serious eye irritation.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.

H302: Harmful if swallowed.
H335: May cause respiratory irritation.

PRECAUTIONARY STATEMENT(S)

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing dust, fumes, gas, mist, vapors,spray.
P264: Wash skin thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.

Response:

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P302+P352: If on skin; Wash with plenty of water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362: Take off contaminated clothing.
P391: Collect spillage.
5670DHML: P264: Wash skin thoroughly after handling
P341: If inhaled: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call for medical assistance.

Storage:

P403: Store in a well-ventilated place.
P233+P235: Keep container tightly closed at a cool to ambient temperature.

Disposal:

1048ZK1E: Dispose of product and container according to Federal, State and local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Bisphenol A Based Epoxy Resin	~ 100	25068-38-6

COMMENTS: An alternative CAS number for this prodcut also known as DGEBA Resin is 25085-99-8. Accordingly, Liquid Epoxy Resins (LER) manufacturers consider that derivatives of LERs may be described using either CAS number as a starting material.

4. FIRST AID MEASURES

EYES: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additonal minutes. If lasting effects occur, consult a physician, preferably an opthalmologist. A suitable emergency eye wash facility should be availble in work area.

SKIN: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

INGESTION: Rinse mouth with water. Do not induce vomiting, seek medical attention if feeling unwell.

INHALATION: If signs and symptoms develop, remove person to fresh air. If signs or symptoms persist, obtain medical attention.

NOTES TO PHYSICIAN: No specific treatment, treat symptomatically. Call medical doctor or poison control center immediatly if large quantities have been ingested or inhaled.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: May be combustible at high temperature.

EXTINGUISHING MEDIA: Water fog or fine spray. Dry Chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be effective. Water fog, applied gently may be used as a blanket for the extinguishments. DO NOT use direct water stream. May spread fire.

EXPLOSION HAZARDS: Closed containers may rupture or explode when heated.

FIRE FIGHTING PROCEDURES: Adjust firefighting measures to suit the surrounding environment. Cool exposed tanks/containers with water sprays.

FIRE FIGHTING EQUIPMENT: Full Bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus (SCBA).

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition prodcuts may include but are not limited to Phenolics, Carbon Dioxide, Carbon Monoxide.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in approved container for disposal according to Local, State and Federal regulations.

LARGE SPILL: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, and waterways. After donning Personal Protective Equiptment take up spillage with appropriate mechanical means and contain, also collect spillage with absorbent materials such as rags, sand, earth, or vermiculite and place in container for disposal according to all Federal, State, and local regulations

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Prevent from entering in to soil, ditches, sewers, waterways and/or groundwater.

LAND SPILL: Prevent material from being absorbed into the soil, treat contaminated soil as hazardous waste.

GENERAL PROCEDURES: Avoid contact with spilled or released material. Immediately remove all contaminated clothing. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment of product, cleaning solvents, rags or other materials used to absorb the spill, to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

SPECIAL PROTECTIVE EQUIPMENT: See Section 8 personal protection. Persons not wearing proper personal protection should be excluded from the spill area until clean-up is completed.

COMMENTS: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or RCRA approved Waste Facility. Processing or contamination of this product may change the waste management options. State and Local disposal regulations may differ from Federal Disposal Regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with skin, eyes and clothing.

HANDLING: Material is a combustible liquid. Keep away form heat, open flame, oxidizers, and other ignition sources. Avoid breathing vapors. Use protective equipment when handling.

STORAGE: Storage is best in the original containers at temperatures between 70 to 85 F (20 to 30 C).
Product may crystallize upon extended storage but can be returned to usable condition upon warming back to a liquid state

COMMENTS: Personal Protective Equiptment for eye and skin exposure is required, see Section 8; for specific recommendations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
	EXPOSURE LIMITS			
Chemical Name	Type		ppm	mg/m³
Bisphenol A Based Epoxy Resin	OSHA PEL	TWA	N/E [1]	[1]
	ACGIH TLV	TWA	N/E	
Footnotes: **1**. N/E = Not Established				

ENGINEERING CONTROLS: Provide ventilation or other engineering controls to keep the airborne concentrations of vapors or mists below the applicable workplace exposure limits (PEL/TLV). Any installed emergency eye wash station or safety showers should be located near the work area.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash goggles and/or face shield. Always use proper eye protection around the work area.

SKIN: Wear impermeable gloves. Clothing should limit skin exposure. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with product. Maintain eye wash and shower station near work area in case of exposure.

RESPIRATORY: Vapor respirator may be required if exposure limits are exceeded. Use a NIOSH approved respirator or equivalent when required. Proper mechanical ventilation should be installed to ensure the exposure levels are below the allowable thresholds (PEL/TLV).

WORK HYGIENIC PRACTICES: Never eat or drink in areas where the chemical is being used. Wash hands after exposure.

COMMENTS: Special instructions for protection and hygiene: Discard contaminated leather articles. Provide readily accessible eye wash stations and safety showers. Wash hands at the end of each workshift and before eating, smoking or using toilet. Provide readily accessible eye wash stations and safety showers.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Viscous liquid.

ODOR: Odorless to mild.

ODOR THRESHOLD: No test data available.

COLOR: Clear yellow to light blue.

pH: No test data available.

FLASH POINT AND METHOD: 264°C (507°F) to 268°C (514°F) at 102.89 hPa EC Method A9.

FLAMMABLE LIMITS: Not Available.

AUTOIGNITION TEMPERATURE: Not Applicable.

VAPOR PRESSURE: 0.03 mbar at 77°C (170°F)

VAPOR DENSITY: Not Available.

BOILING POINT: > 320°C (608°F) Differential Scanning Calorimetry(DSC) Decomposition.

FREEZING POINT: No test data available.

MELTING POINT: Not Applicable.

THERMAL DECOMPOSITION: Not Available.

SOLUBILITY IN WATER: Negligible.

EVAPORATION RATE: No data available.

DENSITY: 9.68 pounds/ gallon

PARTICLE SIZE: Not yet determined.

SPECIFIC GRAVITY: 1.16 (Water = 1) at 20°C (68°F)

VISCOSITY #1: 11000 to 14000 mPa*s at 25°C (77°F) Dynamic

MOLECULAR WEIGHT: Not yet determined.

10. STABILITY AND REACTIVITY

REACTIVITY: Stable under recommended storage conditions.

HAZARDOUS POLYMERIZATION: Under normal conditions of use, hazardous reactions will not occur.

STABILITY: This product is stable under normal conditions of storage and use.

CONDITIONS TO AVOID: Avoid contact with incompatible materials and ignition sources or heat.

POSSIBILITY OF HAZARDOUS REACTIONS: 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.

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced

INCOMPATIBLE MATERIALS: Avoid all unplanned contact with strong reactive chemicals, Acids, Bases, Amines, Peroxides and other Oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Chemical Name	ORAL LD_{50} (rat)	DERMAL LD_{50} (rabbit)
Bisphenol A Based Epoxy Resin	> 15000 mg / kg (Rat)	> 23000 mg / kg (Rabbit)

DERMAL LD_{50}: Prolonged skin contact is unlikely to result in absorption of harmful amounts.

ORAL LD_{50}: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

INHALATION LC_{50}: Acute Inhalation Toxicity - At room temperature, exposure to vapors is minimal due to low volatility. Vapor from heated material, mist or aerosols may cause respiratory irritation. The LC50 has not been determined.

SKIN CORROSION/IRRITATION: Prolonged / repeated skin contact may cause skin irritation with local redness.

SERIOUS EYE DAMAGE/IRRITATION: May cause eye irritation. Corneal injury is unlikely. Vapour may cause eye irritation experienced as mild discomfort and redness.

RESPIRATORY OR SKIN SENSITISATION: Dermal sensitization to this product or component has been seen in some humans. The results of a test on guinea pigs showed this substance to be a weak skin sensitizer. Sensitization has occurred in laboratory animals after repeated exposures.

GERM CELL MUTAGENICITY: In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

CARCINOGENICITY

NOTES: Not considered carcinogenic by OSHA, NTP, or IARC.

REPRODUCTIVE TOXICITY: In animals studies, did not interfere with reproduction.

STOT-SINGLE EXPOSURE: Evaluation of availble data suggests that the material is not an STOT-SE toxicant.

STOT-REPEATED EXPOSURE: Except for skin sensitisation, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.

ASPIRATION HAZARD: Based on physical properties, not likely to be an aspiration hazard.

COMMENTS: Components Influencing Toxicology:
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers
Acute inhalation toxicity
The LC50 has not been determined.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable. However, these results do not mean that the material is not biodegradable under certain environmental conditions.

ECOTOXICOLOGICAL INFORMATION: Do NOT discharge into sewers or waterways.

BIOACCUMULATION/ACCUMULATION: Not readily biodegradable. Moderate potential to bioaccumulate (log Pow in the range 3-5).

AQUATIC TOXICITY (ACUTE)

96-HOUR LC_{50}: 1.3 mg/L (Fish)

48-HOUR EC_{50}: 2.1 mg/L (Daphnia Magna)

Notes: Material is a Marine Pollutant.

COMMENTS: Reference Hexion SDS K122F

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations.

FOR LARGE SPILLS: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or RCRA approved Waste Facility. Processing or contamination of this product may change the waste management options. State and Local disposal regulations may differ from Federal Disposal Regulations.

PRODUCT DISPOSAL: Incinerate or dispose of in a permitted disposal facility. Do not discharge substance/product into sewer system.

EMPTY CONTAINER: Empty containers must be disposed of in accordance with all Federal, State, and local requirements.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated by DOT

TECHNICAL NAME: Epoxy Resin

AIR (ICAO/IATA)

SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)

TECHNICAL NAME: Epoxy Resin

UN/NA NUMBER: 3082

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

VESSEL (IMO/IMDG)

SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)

TECHNICAL NAME: Epoxy Resin

UN/NA NUMBER: 3082

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

MARINE POLLUTANT #1: Epoxy Resin

COMMENTS: This information is not intended to convey all specfic regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of transporting organization to follow all applicable laws, regulations and rules relating to the transportation of this material.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute Health Hazard

FIRE: No test data available. **PRESSURE GENERATING:** No test data available. **REACTIVITY:** No test data available. **ACUTE:** Yes **CHRONIC:** No test data available.

313 REPORTABLE INGREDIENTS: The material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None required

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: Listed on the United States TSCA inventory.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: N/A.

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

CALIFORNIA PROPOSITION 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Class D-2B: Toxic material causing other toxic effects.

CANADIAN ENVIRONMENTAL PROTECTION ACT: Not Required

DOMESTIC SUBSTANCE LIST (INVENTORY): Listed.

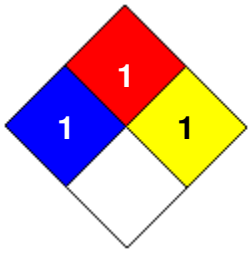
16. OTHER INFORMATION

PREPARED BY: R.D. **Date Prepared:** 07/12/2016

HMIS RATING

HEALTH	*	1
FLAMMABILITY		1
PHYSICAL HAZARD		1
PERSONAL PROTECTION		

NFPA CODES



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