

SAFETY DATA SHEET



Date Issued : 4/8/2014
SDS No : 125552
Date Revised : 9/11/2015
Revision No : 1

U300LV Epoxy Resin

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: U300LV Epoxy Resin
GENERAL USE: Liquid epoxy for composite manufacturing.
PRODUCT CODE: 125552

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:

Eye Irritation, Category 2
 Skin Irritation, Category 2
 Skin Sensitization, Category 1
 Acute Toxicity (Dermal), Category 5
 Acute Toxicity (Oral), Category 5

Environmental:

Aquatic Toxicity (Acute), Category 2
 Aquatic Toxicity (Chronic), Category 2

GHS LABEL



Exclamation
mark



Environment

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H320: Causes eye irritation.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H303: May be harmful if swallowed.
 H411: Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)**Prevention:**

- P280: Wear protective gloves, protective clothing, eye protection and face protection.
 P261: Avoid breathing fumes, dust, vapors, gases, or spray.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P264: Wash skin thoroughly after handling.
 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.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P333+P313: If skin irritation or rash occurs: Seek medical attention.
 P362: Take off contaminated clothing and wash before reuse.
 P312: Call a POISON CENTER or physician if you feel unwell.
 P321: Specific treatment (see Section 4: First Aid).
 P391: Collect spillage.

Disposal:

- P501: Dispose of container and its contents in accordance with all Federal, State, and local regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear to light yellow, syrup.

IMMEDIATE CONCERNS: Skin, eye and possible throat irritation. Can cause skin sensitization.

POTENTIAL HEALTH EFFECTS

EYES: Can cause eye irritation. Symptoms include: stinging, tearing, redness, and swelling of the eyes.

SKIN: Can cause skin irritation. Prolonged or repeated contact may cause sensitization. Symptoms include redness, burning, and drying and cracking of skin, burns and other skin damage.

INGESTION: Minimal risk from ingestion during normal industrial use.

INHALATION: May cause allergic reaction.

ROUTES OF ENTRY: Inhalation, ingestion, skin and eye contact.

CANCER STATEMENT: Not classified as a carcinogen by the International Agency for Research of Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

SENSITIZATION: Repeated contact with this material can cause sensitization.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Bisphenol A/epichlorohydrin Resin	80	25068-38-6
Alkyl (C12-C14) Glycidyl Ether	10 - 15	68609-97-2
Epoxy Resin (Trade Secret)	> 5	N/A

COMMENTS: An alternative CAS number for Bisphenol A is 25085-99-8.

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do so. Seek immediate medical attention.

SKIN: Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

INGESTION: Ingestion of this product is unlikely. Do NOT INDUCE VOMITING. Obtain medical attention. If necessary, remove stomach contents by gastric suction or vomiting, avoid aspiration of vomit.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

NOTES TO PHYSICIAN: If skin sensitization has developed and a causal relationship has been confirmed, further exposure should not be allowed.

ANTIDOTES: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: May be combustible at high temperature

GENERAL HAZARD: Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen.

EXTINGUISHING MEDIA: Use dry chemical, CO₂, water spray/fog (not jet), or foam

HAZARDOUS COMBUSTION PRODUCTS: Carbon Oxides, Phenolics.

OTHER CONSIDERATIONS: The product is not in the flammable range, but will burn. Carbon monoxide possible where incomplete combustion occurs.

FIRE FIGHTING PROCEDURES: Evacuate any non-essential personnel. Extinguish all ignition sources if safe to do so. Use water to cool exposed containers and structures until fire is out. Avoid spreading burning material with water used for cooling purposes.

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).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Extinguish all nearby ignition sources. Stop leak if it can be done safely. Prevent from entering waterways and sewers. Absorb with non-combustible material and transfer into appropriate disposal container.

LARGE SPILL: Use a shovel to put the material in to a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

GENERAL PROCEDURES: Always ensure proper ventilation from any spill. Respirators or SCBA are required if permissible exposure limits are exceeded due to inadequate general ventilation. All spills should be contained as best as possible. All chemical spills should be assumed to be hazardous to the environment to ensure safety.

7. HANDLING AND STORAGE

HANDLING: Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Electric band heaters can be used to warm material but should not be left unattended. Warming to a maximum of 160F is recommended.

STORAGE: Store container in a cool, well-ventilated approved area. Keep container away from sparks and other ignition sources. Keep container tightly closed until ready to use.

STORAGE TEMPERATURE: 2°C (35°F) Minimum to 43°C (109°F) Maximum

Notes: Material may crystallize during prolonged storage. Material can be warmed up to (160F) to dissolve crystals and used as

recommended.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Bisphenol A/epichlorohydrin Resin	TWA	N/E [1]	[1]	N/E	
Alkyl (C12-C14) Glycidyl Ether	TWA	N/E [1]	[1]	N/E	
Epoxy Resin (Trade Secret)	TWA	[2]	[2]	[2]	[2]
Footnotes:					
1. N/E = Not Established					
2. Not yet Determined					

ENGINEERING CONTROLS: Provide ventilation or other engineering controls to keep the airborne concentrations of vapor 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 eyewash and shower station near work area in case of exposure.

RESPIRATORY: Not normally required. In the event of an inhalation risk, use with local exhaust ventilation. If this is not practicable wear a half mask respirator Vapor respirator may be required if exposure limits are exceeded.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Viscous liquid.

ODOR: Slight Odor.

ODOR THRESHOLD: No data available.

APPEARANCE: Colorless to pale yellow liquid.

pH: No data available.

PERCENT VOLATILE: No data available.

FLASH POINT AND METHOD: > 118°C (245°F) Closed Cup

FLAMMABLE LIMITS: No data available.

AUTOIGNITION TEMPERATURE: No data available.

VAPOR PRESSURE: < 1 mm Hg @ 25 C

VAPOR DENSITY: No data available.

BOILING POINT: No data available.

FREEZING POINT: No data available.

MELTING POINT: No data available.

SOLUBILITY IN WATER: Slightly soluble

EVAPORATION RATE: No data available.

SPECIFIC GRAVITY: 1.12 (Water = 1)

VISCOSITY: No data available.

(VOC): No data available.

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

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

POLYMERIZATION: Will not occur.

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

POSSIBILITY OF HAZARDOUS REACTIONS: 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.

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

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)
Bisphenol A/epichlorohydrin Resin	> 5000 mg / kg (Rat)	> 20000 mg / kg (Rabbit)
Alkyl (C12-C14) Glycidyl Ether	17100 mg / kg (Rat)	> 4000 mg / kg (Rabbit)

EYE EFFECTS: Eye irritant

SKIN EFFECTS: Skin Irritant, Sensitizer.

CARCINOGENICITY

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

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Moderately toxic to fish, not biodegradable, potential to bioaccumulate.

ECOTOXICOLOGICAL INFORMATION: DO NOT discharge into sewer or waterways.

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

AQUATIC TOXICITY (ACUTE): Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

96-HOUR LC₅₀: 2 mg/L (Trout)

48-HOUR EC₅₀: 1.8 mg/L (Daphnia Magna)

96-HOUR EC₅₀: 11 mg/L (Algae)

Notes: Values listed for Bisphenol A (CAS# 25068-38-6)

GENERAL COMMENTS: No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be in accordance with all Federal, State, and local regulations. Empty containers may still be considered dangerous due to residual vapors/liquid/dust.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated by DOT

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Not Regulated by DOT

AIR (ICAO/IATA)

SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s.

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.

TECHNICAL NAME: Epoxy Resin

UN/NA NUMBER: 3082

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

EmS: F-A,S-F

MARINE POLLUTANT #1: Listed.

COMMENTS: Marine Pollutant; Epichlorohydrin

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

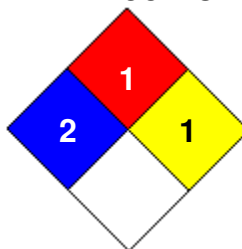
311/312 HAZARD CATEGORIES: Immediate (Acute) health hazard.

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

313 REPORTABLE INGREDIENTS: None required.

302/304 EMERGENCY PLANNING**EMERGENCY PLAN:** None required**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA REGULATORY:** None required.**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA STATUS:** All Components listed.**CALIFORNIA PROPOSITION 65:** This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm. Epichlorohydrin 106-89-8**OSHA HAZARD COMM. RULE:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200**CANADA****WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** Class D-2B: Toxic material causing other toxic effects.**16. OTHER INFORMATION****PREPARED BY:** Fiberglass Coatings, Inc. (GS)**REVISION SUMMARY:** This MSDS replaces the 4/8/2014 MSDS. Revised: **Section 1: 24 HR. EMERGENCY TELEPHONE NUMBERS, PREPARED BY.****HMIS RATING**

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

NFPA CODES**HMIS RATINGS NOTES:** The customer is responsible for determining the PPE code for this material.**MANUFACTURER DISCLAIMER:** This information is compiled from sources believed reliable as of the date of issue, it is provided in good faith and correct to the best of our knowledge. No warranty, guarantee, or representation is made as to the sufficiency of the information for the safe use of the product nor to relieve the end user of their own Federal, State, and local regulatory compliance requirements.