

1. Product and Company Identification

Product Names: EPOXY TEK - TT 701 EPOXY RESIN

Product Class: Epoxy Resin

Manufacturer: FIBERGLASS FLORIDA, INC
320 PAINT STREET
ROCKLEDGE, FL 32955

Telephone: 321-639-3046

Emergency: 800-535-5053 (INFOTRAC)

2. Hazard Identification

Form: Viscous liquid.

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency Overview: WARNING!
CAUSES EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE RESPIRATORY TRACT IRRITATION. HEATED MATERIAL CAN CAUSE THERMAL BURNS.

Potential Acute Health Effects:

Inhalation: Slightly irritating to the respiratory system.

Ingestion: Not expected to be harmful under normal conditions of use.

Skin: Irritating to skin. May cause sensitization by skin contact. Heated material Can cause thermal burns.

Eyes: Irritating to eyes. Heated material can cause thermal burns.

Potential Chronic Health Effects:

Chronic Effects: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Target organs: Review Section 2 and 11 for any additional assessments.

Over-Exposure Signs/Symptoms:

Inhalation: Adverse symptoms may include the following: respiratory tract irritation, Coughing.

Ingestion: No specific data.

Skin: Adverse symptoms may include the following: irritation, redness.

Eyes: Adverse symptoms may include the following: pain or irritation, Watering, redness.

Medical Conditions aggravated by over-exposure: Pre-existing skin disorders may be aggravated By over-exposure to this product.

See Section 11 for more detailed information on health effects and symptoms.

3. Composition/Information on Ingredients

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>%</u>
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	25068-38-6	70-100%

4. First Aid Measures

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
Skin Contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. For contact with hot product, flush contaminated skin with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze. Get medical attention immediately.
Inhalation:	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing air to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion:	Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of First Aid Personnel:	In the event of body contact with molten material, immediately cool with running water; do not attempt to remove material from skin. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Notes to Physician:	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-Fighting Measures

Flammability of Product:	In a fire or if heated, a pressure increase will occur and the container may burst.
<u>Extinguishing Media:</u>	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Not Suitable	None known.
Special Exposure Hazards:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous Combustion Products	Decomposition products may include the following materials: carbon oxides
Special Protective Equipment for Fire Fighters:	Fire-Fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

Personal Precautions:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Large Spill:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. For molten material, allow the product to cool and solidify. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Small Spill:	Stop leak if without risk. Move containers from spill area. For molten material, allow the product to cool and solidify. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

7. Handling and Storage

Handling:	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Note: This resin may be handled, shipped and stored at elevated temperature in bulk.

8. Exposure Controls/Personal Protection

Consult local authorities for acceptable exposure limits.	
Recommended Monitoring Procedures:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Engineering Measures:	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation

Hygiene Measures:	or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Eyes:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Skin:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Environmental Exposure Controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

Form	Viscous liquid
Flash Point	251°C (484°F) Pensky-Martens Closed Cup ASTM D 93
Auto-Ignition Temperature	Not Available
Flammable limits	
Lower:	Not available
Upper:	Not available
Color	Clear
pH	Not available
Boiling Point	Greater than 260°C (500°F)
Relative Density	1.17
Vapor Pressure	0.03 mbar @ 77 °C (171°F)
Odor Threshold	Not Available
Viscosity	Dynamic – Not available
Solubility	Negligible
Partition coefficient: n-Octanol/water	Not available
Evaporation rate	Not available
Vapor Density	Not available

10. Stability and Reactivity

Stability	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to Avoid	Strong oxidizer
Materials to Avoid	Reactive or incompatible with the following materials: oxidizing materials, strong acids, strong alkalis
Other Hazards	Reacts with considerable heat release with some curing agents

Hazardous Decomposition Products **Decomposition products may include the following materials: carbon oxides**

11. Toxicological Information

Acute toxicity **4,4-Isopropylidenediphenol-Epichlorohydrin Copolymer**
Ingredient name

LD50 Oral	Rat	30,000 mg/kg
LD50 Oral	Mouse	20,000 mg/kg
LD50 Oral	Rabbit	19.8 mg/kg
LD50 Dermal	Rat	>1,200 mg/kg
LD50 Dermal	Mouse	> 1,270 mg/kg

Other Toxicological Information

Carcinogenicity **4,4-Isopropylidenediphenol-Epichlorohydrin Copolymer**

<u>Classification</u>	ACGIH	Not Classified
<u>Ingredient Name</u>	IARC	Not Classified
	NTP	Not Classified
	OSHA	Not Classified
	EEC	Not Classified

12. Ecological Information

Environmental effects **No known significant effects or critical hazards.**

Other Adverse effects **No known significant effects or critical hazards**

13. Disposal Considerations

Waste Disposal **The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.**

14: Transport Information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

International Transport Regulations

Regulatory Information	UN/NA Number	Proper Shipping Name	Classes/*PG	Reportable Quantity (RQ)
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CFR	Non-Regulated
TDG	Non-Regulated
IMO/IMDG	Non-Regulated
IATA (Cargo)	Non-Regulated

*PG: Packing Group

15. Regulatory Information

US Regulations

HCS Classification	Irritating material, Sensitizing material
U.S. Federal Regulations	SARA 311/312 Classification Immediate (acute) health hazard SARA 313 – Supplier Notification This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372. Not Required.
State Regulations	SARA 301 Extremely Hazardous Substances – None required Massachusetts RTK Substances – None required New jersey RTK Hazardous Substances – None required Pennsylvania RTK Hazardous Substances – None required California Prop. 65: Warning: This product contains a chemical known to the State of California to cause cancer. Oxirane, (phenoxyethyl)- 122-60-1

Canada

WHMIS (Canada) Canadian lists	Class D-2B: material causing other toxic effects (Toxic) Canadian NPRI: None Required.
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International Regulations

Chemical Inventories	Europe inventory – All components are listed or exempted Australia inventory (AICS) – All components are listed or exempted China inventory (IECSC) – All components are listed or exempted Korea inventory (KECI) – All components are listed or exempted Philippines inventory (PICCS) – All components are listed or exempted Japan inventory (ENCS) – All components are listed or exempted Canada inventory – All components are listed or exempted United States inventory (TSCA 8b)– All components are listed or exempted
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16. Other Information

Hazardous Material Information System III (U.S.A.)	Health: 2 Flammability: 1 Physical hazards: 0 Chronic:
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Caution: HNIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS ratings are not required on MSDSs under CFR 1910.1200, the preparer may choose to provide them. HMIS ratings are to be used with a fully implemented HMIS program. HMIS is a registered mark of the National Paint & Coatings Association (NPCA).

The customer is responsible for determining the PPE code for this material

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