

## Restech+ Part A, Laminating Epoxy

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Restech+ Part A, Laminating Epoxy
<b>Other Means of Identification</b>	Part A
<b>Product Family</b>	Epoxy Resin
<b>Recommended Use</b>	Industrial Use Only.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer / Supplier</b>	Fabtech Systems LLC, PO Box 2248, Everett WA 98213 1-800-322-8324 <a href="mailto:info@fabtechsystems.com">info@fabtechsystems.com</a>
<b>Emergency Phone No.</b>	INFOTRAC 24hr 800-535-5053, International 1-352-323-3500
<b>SDS No.</b>	0155
<b>Date of Preparation</b>	August 24, 2015

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Skin corrosion/irritation - Category 2; Skin sensitization - Category 1; Germ cell mutagenicity - Category 2; Aquatic hazard (Chronic) - Category 2

#### GHS Label Elements



Signal Word:

Warning

Hazard Statement(s):

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves.
- P264 Wash hands thoroughly after handling.
- P273 Avoid release to the environment.

Response:

- P302 + P352 IF ON SKIN: Wash with plenty of water.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

- P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

#### Other Hazards

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Bisphenol-A epoxy resin	25068-38-6	40-70	
Phenol, polymer with formaldehyde, glycidyl ether	28064-14-4	15-35	
Oxirane, 2,2'-[1,6-hexanediylbis(oxymethylene)]bis-	16096-31-4	5-15	
o-cresyl glycidyl ether	2210-79-9	0-10	

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Remove source of exposure or move to fresh air.

##### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation or a rash occurs, get medical advice/attention.

##### Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice/attention.

##### Ingestion

Do not induce vomiting; immediately call for medical help.

##### First-aid Comments

Some of the first-aid procedures recommended here require advanced first-aid training.

#### Most Important Symptoms and Effects, Acute and Delayed

None known.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.

##### Unsuitable Extinguishing Media

None known.

#### Specific Hazards Arising from the Chemical

Heating increases the release of toxic vapour.

#### Special Protective Equipment and Precautions for Fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA). A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

#### Environmental Precautions

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If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

#### **Methods and Materials for Containment and Cleaning Up**

Contain and soak up spill with absorbent that does not react with spilled product. Dike spilled product to prevent runoff.

#### **Other Information**

Report spills to local health, safety and environmental authorities, as required.

## **SECTION 7. HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

Only use where there is adequate ventilation. Wear personal protective equipment to avoid direct contact with this chemical. Keep containers tightly closed when not in use or empty.

#### **Conditions for Safe Storage**

Store in an area that is: well-ventilated. Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

SEN = Sensitization (skin and/or respiratory).

#### **Appropriate Engineering Controls**

Use a local exhaust ventilation and enclosure, if necessary, to control amount in the air.

#### **Individual Protection Measures**

##### **Eye/Face Protection**

Wear chemical safety goggles.

##### **Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons, boots.

##### **Respiratory Protection**

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

#### **Basic Physical and Chemical Properties**

<b>Appearance</b>	Clear colourless - yellow.
<b>Odour</b>	Faint
<b>pH</b>	Neutral
<b>Flash Point</b>	> 150 °C (302 °F) (closed cup)
<b>Solubility</b>	Practically insoluble in water
<b>Other Information</b>	
<b>Physical State</b>	Liquid

## **SECTION 10. STABILITY AND REACTIVITY**

#### **Reactivity**

Not reactive under normal conditions of use.

#### **Chemical Stability**

Normally stable.

#### **Possibility of Hazardous Reactions**

Reacts with acids, alkalis and oxidizing agents reacts with amines.

#### **Conditions to Avoid**

None known.

#### **Incompatible Materials**

Polymerizes on contact with: amines (e.g. triethylamine), strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), strong oxidizing agents (e.g. perchloric acid).  
Not corrosive to metals.

#### **Hazardous Decomposition Products**

Carbon monoxide and carbon dioxide.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Likely Routes of Exposure**

Skin absorption; eye contact.

#### **Acute Toxicity**

<b>Chemical Name</b>	<b>LC50</b>	<b>LD50 (oral)</b>	<b>LD50 (dermal)</b>
Bisphenol-A epoxy resin		10000-11400 mg/kg (rat)	
o-cresyl glycidyl ether	> 1000 mg/L (rat) (4-hour exposure)	> 5500 mg/kg (rat)	> 2000 mg/m3 (rabbit)

#### **Skin Corrosion/Irritation**

Human experience and animal tests show mild irritation.

#### **Serious Eye Damage/Irritation**

There is limited evidence of mild irritation.

#### **STOT (Specific Target Organ Toxicity) - Single Exposure**

##### **Inhalation**

Reactive airways dysfunction syndrome (RADS).

##### **Skin Absorption**

Symptoms may include redness, rash, swelling and itching.

##### **Ingestion**

Irritation of the mouth, throat and stomach.

#### **Aspiration Hazard**

Symptoms may include coughing, choking, shortness of breath, difficult or rapid breathing, and wheezing.

#### **STOT (Specific Target Organ Toxicity) - Repeated Exposure**

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

#### **Respiratory and/or Skin Sensitization**

Respiratory sensitizer. Skin sensitizer. In sensitized people, exposure to a very small amount of product can cause symptoms including wheezing, difficult breathing, sneezing and runny or blocked nose. Can cause death. Symptoms can develop immediately following exposure or hours later. Repeated exposure will make the reaction worse.

#### **Carcinogenicity**

Not known to cause cancer.

#### **Reproductive Toxicity**

##### **Development of Offspring**

Not known to harm the unborn child.

##### **Sexual Function and Fertility**

Not known to cause effects on sexual function or fertility.

##### **Effects on or via Lactation**

Not known to cause effects on or via lactation.

#### **Germ Cell Mutagenicity**

May be mutagenic based on limited evidence. (o-cresyl glycidyl ether)

#### **Interactive Effects**

No information was located.

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## SECTION 12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Not readily biodegradable. This product shows a low bioaccumulation potential.

### Toxicity

#### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Bisphenol-A epoxy resin	1-10 mg/L			

### Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

### Mobility in Soil

No information was located.

### Other Adverse Effects

There is no information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Bury in a licensed landfill or burn in an approved incinerator according to federal, provincial/state, and local regulations.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
IMO (Marine)	UN3082	Environmentally hazardous substance, liquid, N.O.S. (Epoxy Resin)	9	III
IATA (Air)	UN3082	Environmentally hazardous substance, liquid, N.O.S. (Epoxy Resin)	9	III

**Environmental Hazards** Marine Pollutant (Bisphenol-A epoxy resin)

**Special Precautions for User** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

**NFPA Rating**      **Health - 2**      **Flammability - 1**      **Instability - 0**

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