

Product Name: THER-O-BOND 1500 RESIN

MSDS No.: 11-000356

Date Revised: 03/29/2001

Page: 1 of 4

28 Norfolk Avenue • Easton Industrial Park • South Easton, MA 02375 • Phone: 508.230.8070 • Fax: 508.230.2318

# RESIN TECHNOLOGY GROUP, LLC

## MATERIAL SAFETY DATA SHEET



### 1. MATERIAL IDENTIFICATION

Product Name: **THER-O-BOND 1500 RESIN**

EMERGENCY PHONE: For product emergency involving spill, leak, fire, exposure, or accident call CHEMTREC at (800) 424-9300. For all other inquiries please call Resin Technology Group, LLC at (508) 230-8070.

### 2. COMPOSITION

HAZARDOUS COMPONENTS	CAS NO.	PERCENT	Exposure Limits	
			ACGIH TLV-TWA	OSHA PEL
Epoxy Resin	25068-38-6	< 50	N.E.	N.E.
N - Butyl Glycidyl Ether	2426-08-6	< 5	133 mg/m <sup>3</sup>	133 mg/m <sup>3</sup>

Note: Due to this product's physical composition, the release or generation of dust is not expected to occur under normal conditions of use.  
Abbreviations: N.E.: Not Established

### 3. HEALTH HAZARDS IDENTIFICATION

Primary Routes of Exposure:                      Eyes: Yes                      Skin: Yes                      Inhalation: Yes

Eye Contact:    Contact can cause moderate irritation.

Skin Contact:    Contact can cause moderate irritation; contact with this product at elevated temperatures can result in thermal burns.

Inhalation:      May cause irritation to the respiratory tract.

Ingestion:        May be slightly toxic and may be harmful if swallowed.

### 4. FIRST AID MEASURES

Eyes:                      Flush eyes thoroughly with water for 15 minutes while holding eyelids open. Seek medical attention immediately.

Skin:                      Remove contaminated clothing and shoes. Wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, seek medical attention. Do not reuse clothing until laundered.

Inhalation:              Remove to fresh air, and provide oxygen if breathing is difficult. Consult a physician.

Ingestion:                If large quantities are ingested, give no more than 2 glasses of water and induce vomiting by giving 30 cc (2 tablespoons) syrup of Ipecac, or by sticking finger to back of victim's throat. Seek medical attention promptly.

Product Name: THER-O-BOND 1500 RESIN

MSDS No.: 11-000356

Date Revised: 03/29/2001

Page: 2 of 4

**5. FIRE FIGHTING MEASURES****FLAMMABLE PROPERTIES**

Flashpoint: 270 °F (PMCC)  
 Explosive Limits: Not available.  
 Auto-Ignition Temperature: Not available.  
 Hazardous Decomposition Products: Carbon monoxide, aldehydes, acids and other organic substances may be formed during combustion or elevated (>500 °F) temperature degradation.

Fire Fighting Instructions: Firefighters should wear full bunker gear including a positive pressure NIOSH approve self-contained breathing apparatus. Cool fire exposed containers with water.

Extinguishing Media: Use water fog, foam, dry chemical, or carbon dioxide.

**6. ACCIDENTAL RELEASE MEASURES**

Wear respirator and protective clothing as appropriate. Ventilate area if necessary, evacuate if airborne levels could exceed established limits. Soak up residue with an absorbent such as clay, sand or other suitable material. Dispose of properly. Flush area with water to remove trace residue.

**7. HANDLING AND STORAGE**

Store in a cool dry place away from open flames and high temperatures. Heating this resin above 300 °F in the presence of air may cause slow oxidative decomposition above 500 °F, polymerization may occur. Some curing agents, e.g. aliphatic polyanimes, can produce exothermic reactions, which in large masses can cause runaway polymerization. Fumes and vapors from these thermal and chemical decompositions vary widely in composition and toxicity. Do not breathe fumes.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Engineering/Ventilation Controls: General ventilation and or local exhaust may be required to maintain airborne concentrations below established exposure limits when generating vapors or mists.

Respiratory Protection: Where exposure exceeds established airborne limits, use a NIOSH approved respirator, or a self-contained breathing apparatus, or a supplied air respirator as necessary to control exposure.

Skin Protection: Wear impervious gloves and protective clothing as necessary to prevent skin contact.

Eye Protection: Wear chemical splash goggles or safety glasses with side shields.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Black liquid  
 Odor: Sweet, pleasant odor  
 Boiling Point: Not established.  
 Specific Gravity: 1.55  
 Vapor Pressure: 1  
 Vapor Density (air=1): 3.8  
 Evaporation Rate: Not applicable  
 Solubility in Water: Negligible

Product Name: THER-O-BOND 1500 RESIN

MSDS No.: 11-000356

Date Revised: 03/29/2001

Page: 3 of 4

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable under normal conditions and use.
<b>Conditions to Avoid:</b>	Can react vigorously with strong oxidizing agents, strong acids, and strong bases, especially primary and secondary aliphatic amines. Reaction with some curing agents may produce considerable heat.
<b>Hazardous Decomposition Products:</b>	Carbon monoxide, aldehydes, acids, and other organic substances may be formed during combustion or elevated (>500 °F) temperature degradation.
<b>Hazardous Polymerization:</b>	Will not occur.

**11. TOXICOLOGICAL INFORMATION**

This section provides toxicological information with regard to the pure form of the components indicated. This information can be subject to misinterpretation. It is therefore suggested that persons trained in its evaluation interpret this information.

**Epoxy Resin:**

LD <sub>50</sub> Acute Oral Rat:	11.4 g/kg
LD <sub>50</sub> Acute Dermal Rabbit:	> 20 ml/kg
Eye Irritation:	Driaze - 2 Rabbit
Skin Irritation:	Driaze - 1.6 Rabbit

**N-Butyl Glycidyl Ether:**

LD <sub>50</sub> Acute Oral Rat:	2.26 g/kg
LD <sub>50</sub> Acute Dermal Rabbit:	788 mg/kg
LC <sub>50</sub> Acute Inhalation Rat:	1030 ppm/8H

N-Butyl Glycidyl Ether has tested positive in a number of in vitro genetic toxicity assays with and without metabolic activation. Mixed results were observed in the dominant lethal and the mouse micronucleus tests.

**12. ECOLOGICAL INFORMATION**

No data found.

**13. DISPOSAL CONSIDERATIONS**

Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the general public or environment occurs or is likely to occur. Place in an appropriate disposal facility in compliance with applicable governmental regulations.

Product Name: THER-O-BOND 1500 RESIN

MSDS No.: 11-000356

Date Revised: 03/29/2001

Page: 4 of 4

**14. TRANSPORT INFORMATION**

D.O.T. Classification: Combustible Liquid, N.O.S. (Butyl Glycidyl Ether)

Hazard Class: Combustible Liquid UN #: NA1993 PG: III ERG #: 128 Hazard Labels: None

Not regulated by D.O.T. if in a container of 119 gallons or less.

I.A.T.A. Classification: Not Regulated

Hazard Class: None UN #: None PG: None ERG #: None Hazard Labels: None

**15. REGULATORY INFORMATION****US FEDERAL REGULATIONS**

TSCA: The chemical components of this product are contained on section 8(B) of the chemical substance inventory list (40CFR710).

**SARA Title III Information**Section 313 - Toxic Chemicals:

This product contains the following chemicals subject to reporting requirements: None.

Section 302 - Extremely Hazardous Substances:

Pursuant to section 302 of SARA Title III, this product does not contain an extremely hazardous substance.

Section 311/312 - Hazard Categories:

Fire Hazard:	No	Immediate (Acute) Health Hazard:	Yes
Reactivity Hazard:	No	Delayed (Chronic) Health Hazard:	No
Sudden Release of Pressure Hazard:	No		

**STATE REGULATIONS / RIGHT TO KNOW**

California Proposition 65: This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects, or reproductive toxicity.

Pennsylvania: All of the materials in this product requiring identification by the Commonwealth of Pennsylvania are listed in section 2.

**16. OTHER INFORMATION**

HMIS Hazards:	Health: 2	Flammability: 1	Reactivity: 0
NFPA Hazards:	Health: 2	Flammability: 1	Reactivity: 0

This information is intended solely for the use of individuals trained in the use of this particular system.

Resin Technology Group, LLC urges each customer or recipient of this MSDS to study it carefully in order to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals that are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate in order to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: 1 - notify its employees, agents, contractors, and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety. 2 - furnish this same information to each of its customers for the product. 3 - request its customers to notify their employees, customers, and other users of the product of this information.

The information contained herein is based on the data available to us and is believed to be correct. However, Resin Technology Group, LLC makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Resin Technology Group, LLC assumes no responsibility for injury from the use of the product described herein.