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Product Name: THER-O-BOND 1600 RESIN

MSDS No. 11-000088

Date Revised: 03/26/2001

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RESIN TECHNOLOGY GROUP, LLC

MATERIAL SAFETY DATA SHEET



1. MATERIAL IDENTIFICATION

Product Name: **THER-O-BOND 1600 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	>20	N.E.	N.E.
N - Butyl Glycidyl Ether	2426-08-6	<5	133 mg/m ³	133 mg/m ³

Abbreviations: N.E.: Not Established

3. HEALTH HAZARDS IDENTIFICATION

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 with plenty of water for 15 minutes while holding eyelids open. Obtain prompt medical attention.

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

Inhalation: If vapor is inhaled, remove to fresh air. Administer oxygen if there is difficulty breathing. Give artificial respiration if breathing has stopped. Obtain medical attention.

Ingestion: 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.

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 not enter a confined fire space without full bunker gear including a positive pressure NIOSH approved 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. Shut off source of leak if safe to do so. 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. Keep 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 polyamines, can produce exothermic reactions, which in large masses can cause runaway polymerization and charring of the reactants. 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 local exhaust may be required to maintain airborne concentrations below the established exposure limits exposure 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:	Blue liquid
Odor:	Sweet, pleasant odor
Boiling Point:	Not established.
Specific Gravity:	2.3
Vapor Pressure (mm Hg):	1
Vapor Density (air =1):	3.8
Evaporation Rate:	Not applicable
Solubility in Water:	Negligible

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions and use.

Conditions to avoid: Can react with strong oxidizing agents, strong acids, and strong bases, especially primary and secondary aliphatic amines. Reaction with some curing agents may produce considerable heat. Run-a-way cure reactions may char and decompose the resin system.

Hazardous Decomposition Products: Carbon monoxide, aldehydes, acids, and other organic substances may be formed during combustion or elevated (>500 °F) temperature degradation.

Hazardous Polymerization: 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 ₅₀ Acute Oral Rat:	11.4 g/kg
LD ₅₀ Acute Dermal Rabbit:	> 20 ml/kg
Eye Irritation:	Draize - 2 Rabbit
Skin Irritation:	Draize - 1.6 Rabbit

N-Butyl Glycidyl Ether:

LD ₅₀ Acute Oral Rat:	2.26 g/kg
LD ₅₀ Acute Dermal Rabbit:	788 mg/kg
LC ₅₀ Acute Inhalation Rat:	1030 ppmv/8H

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

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.

14. TRANSPORT INFORMATION

D.O.T. Classification: Not Regulated
 Hazard Class: None UN #: None PG: None ERG #: None Hazard Labels: None

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

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