

Product Name: THER-O-BOND 1500 HARDENER

MSDS No.: 21-000248

Date Revised: 03/29/2001

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# RESIN TECHNOLOGY GROUP, LLC

## MATERIAL SAFETY DATA SHEET



### 1. MATERIAL IDENTIFICATION

Product Name:

**THER-O-BOND 1500 HARDENER****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
Polyglycoldiamine	4246-51-9	> 70	N.E.	N.E.

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

Routes of Exposure:

Eyes: Yes

Skin: Yes

Inhalation: Yes

**Eye Contact:** Corrosive. Contact can cause severe irritation. Contact may result in burns and permanent injury.

**Skin Contact:** Corrosive. Contact can cause severe irritation. Contact with the liquid may result in dermatitis and deep burns.

**Inhalation:** May cause irritation to the nose, throat, and lungs.

**Ingestion:** May result in severe gastric disturbances and corrosive damage.

### 4. FIRST AID MEASURES

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

**Skin:** Wash skin water, and remove contaminated clothing and shoes. If irritation occurs, seek medical attention. Do not reuse clothing until laundered.

**Inhalation:** Remove to fresh air, and provide oxygen if breathing is difficult. Seek medical attention promptly.

**Ingestion:** DO NOT induce vomiting. Dilute with water or milk and get immediate medical attention. Never give anything by mouth to an unconscious person. Seek medical attention promptly.

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## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

Flashpoint: > 200 °F (Estimate)  
Explosive Limits: Not available.  
Auto - Ignition Temperature: Not available.  
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and nitrogen oxides.

**Fire Fighting Instructions** Firefighters should be equipped with full protective gear, including a positive pressure NIOSH approve self-contained breathing apparatus.

**Extinguishing Media:** Use water fog or alcohol foam.

## 6. ACCIDENTAL RELEASE MEASURES

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

## 7. HANDLING AND STORAGE

Store in a cool, dry place. Keep away from open flames and high temperatures. Avoid all ignition sources and reactive materials. Avoid contact with eyes. Wear safety goggles as appropriate. Avoid contact with skin. Wear chemical-resistant gloves and other protective clothing as required to minimize contact.

## 8. EXPOSURE CONTROLS and PERSONNEL 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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear liquid
Odor:	Ammoniacal
Boiling Point:	Not determined
Specific Gravity:	0.96
Vapor Pressure:	Not determined
Vapor Density (air=1):	Not applicable
Evaporation Rate:	Not applicable
Solubility in Water:	Negligible

**10. STABILITY AND REACTIVITY**

Chemical Stability:	Stable under normal conditions and use.
Conditions to Avoid:	Mineral acids.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, and nitrogen oxides.
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.

Polyglycol diamine:

LD <sub>50</sub> Acute Oral Rat:	3160 mg/kg
LD <sub>50</sub> Acute Dermal Rabbit:	2500 mg/kg
LD <sub>50</sub> Acute Dermal Rat:	> 2150 mg/kg

This material is corrosive to the body tissues. Skin contact may result in dermatitis and deep burns. Eye contact may result in burns and permanent injury. Ingestion may result in severe gastric disturbances and corrosive damage.

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.

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**14. TRANSPORT INFORMATION****D.O.T. Classification:** Amines, Liquid, Corrosive, N.O.S. (Polyglycoldiamine)**Hazard Class:** 8      **UN #:** UN2735      **PG:** II      **ERG #:** 153      **Hazard Labels:** Corrosive**I.A.T.A. Classification:** Amines, Liquid, Corrosive, N.O.S. (Polyglycoldiamine)**Hazard Class:** 8      **UN #:** UN2735      **PG:** II      **ERG #:** 153      **Hazard Labels:** Corrosive**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 does not contain any chemicals subject to reporting requirements.**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 does not contain a chemical or chemicals known to the State of California to cause birth defects or other reproductive harm.**Pennsylvania:** All materials in this product requiring identification by the Commonwealth of Pennsylvania are listed in section 2.**16. OTHER INFORMATION****NFPA Hazards:**                      **Health:** 3                      **Fire:** 1                      **Reactivity:** 0**HMS Hazards:**                      **Health:** 3                      **Fire:** 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 who 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; and 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.