

MATERIAL SAFETY DATA SHEET

W HARDENER

Manufactured By: Haven Corporation
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Date Prepared: January 2006

Chemical Family: Epoxy Resin Hardener Solution

OSHA HMIS Rating: Health – 2 Flammability – 2 Reactivity – 1 Personal Protection – C

Section II – Hazardous Ingredients/Identity Information *

| <u>Hazardous Components:</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> | <u>Other Limits</u> | <u>Wt. %</u> |
|---|-----------------|------------------|---------------------|--------------|
| Diethylene glycol monoethyl ether CAS #111-90-0) | NE | NE | | 30-40 |
| Proprietary amine accelerator | NE | NE | | 25-30 |
| *Non-hazardous ingredients | NA | NA | | 30-40 |

*TSCA inventory Status: All chemical components contained in this product are listed on the TSCA Inventory List.

**Unidentified ingredients are not considered hazardous per 29 CFR 1910.1200.

Section II (A) – Material Reportable per Title III Section 313

Supplier notification under Section 313 of Title III of the Superfund Amendment and Reauthorization of 1986 and 40 CFR 372 is required

the following material(s):

| <u>Name/CAS#</u> | <u>WT. %</u> |
|---|--------------|
| Diethylene glycol monoethyl ether (CAS #111-90-0) | 30-40 |

Section III – Physical/Chemical Characteristics

| | | | |
|--------------------------------|-----------|---------------------------------------|--------------------|
| Boiling Point: | 380° F | Specific Gravity(Water =1.00): | 1.15g/ml |
| Vapor Pressure (mm Hg): | <0.1 | Melting Point: | NA |
| Vapor Density (Air =1): | 4.6 | Evaporation Rate (BuA=1.00) | <0.01 |
| Solubility in Water: | Insoluble | Appearance and Odor: | Thick liquid/ mild |
| pH: | NA | Volatile Organic Content: | 335 g/l |

Note: These physical properties are typical values for this product.

Section IV – Fire and Explosive Hazard/DOT Hazard Data

Flash Point (Method Tested: 195° F (PMCC) **Flammability Limits:** LEL: 1.2% UEL: 8.5%

Extinguishing Media: Carbon Dioxide, dry chemical or foam. Never allow run-off to enter sewer or waterways. Water may be ineffective.

Special Fire Fighting Procedures: Wear full protective clothing and SCBA (Self-Contained Breathing Apparatus). As with

closed container exposed to heat and flame, container may rupture. Cool container with cold water before opening.

Unusual Fire and Explosion Hazard: Closed container exposed to heat and flame may rupture due to pressure build-up.

Toxic fumes may be emitted when heated to decomposition. Vapors may travel to ignition source and flashback.

Section V – Reactivity Data

Stability: Stable **Conditions to Avoid:** Avoid heat, sparks, or static electricity.

Incompatibility (Materials/Conditions to Avoid): Strong oxidizers, acids and alkalis.

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Combustion may produce carbon monoxide, dioxide, and traces of formaldehyde and phenol.

Section VI – Health Hazard Data

Note: The health hazards presented here are those for the hazardous substances presented in Section II unless otherwise noted.

Route(s) of entry: **Inhalation:** YES **Skin:** YES **Ingestion:** YES

Health Hazards:

Acute: If material is heated vapors may cause respiratory irritation. Possible skin absorption.

Eye contact is irritating and may cause damage.

est animals.

Carcinogenicity: NTP: NO IARC: NO OSHA: NO

Medical Conditions Aggravated By Exposure: No additional medical information found.

FIRST AID:

Eyes: Flush eyes with water for 30 min. Contact physician immediately.

Lungs: Move victim to fresh air. Monitor patient for respiratory distress. Seek medical attention if irritation persists.

Skin: Wipe material from skin with paper towel or cloth then wash exposed area with mild soap and warm water.

Medical attention if irritation persists.

Stomach/Gastrointestinal Tract: Contact local poison control center or physician IMMEDIATELY! If patient is Unconscious, having trouble breathing or in convulsions, do NOT induce vomiting or give water.

Note: Always clean contaminated gear and clothing prior to reuse. Never administer anything to an unconscious person.

Section VII – Precautions for Safe Handling and Use

Steps to be Taken In Case Material is Released or Spilled: Stop source of spill and remove all sources of ignition. Ventilate area of spill. Contain the spill and prevent material from access to confined spaces, public sewers and Waterways. Collect material using absorbents, non-sparking tools, and other equipment required by the size of the

Decontaminate area by collecting any cleaning and rinsing media for proper disposal.

Persons not wearing appropriate

protective gear should be restricted from such areas until clean up has been completed. Dispose of spilled material, cleaning and rinsing media in accordance to local, state, and federal regulations.

Waste Disposal Method: Practice methods according to local, state, and federal regulations. This material will be a RCRA Hazardous Waste if disposed of as received.

Precautions to be Taken in Handling and Storage: Store in cool, dry, well ventilated area. Keep containers closed when not in use.

Other Precautions: All normal and careful handling procedures should be exercised.

KEEP OUT OF REACH OF CHILDREN!!

Section VIII – Control Measures

Respiratory Device (Type): If proper ventilation is available, none is required

Ventilation: Local exhaust may be necessary to maintain vapors below TLV limits for mentioned hazardous materials.

Local Exhaust: YES Mechanical: N/A Special: N/A Other: N/A

Protective Gloves: Wear gloves impermeable to product.

Eye Protection: Use OSHA approved eye protection to prevent accidental contact and avoid irritation.

Other Protective Clothing or Equipment: Wear appropriate clean, protective clothing. Keep contact (body) area clean.

Work/Hygienic Practices: Required. Wash hands before eating, drinking or smoking.

NA – Not Applicable

NE – Not Established

UN – Unavailable

Notice of Disclaimer:

The above information is based on our research and is, to the best of knowledge, true and accurate. Some of the information presented and conclusions

herein are from sources other than direct testing data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, this information is provided without any warranty, expressed or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

For more information, contact Haven Corporation – 6630 Quad Avenue . Baltimore, MD 21237 (410) 485-6801