

# SAFETY DATA SHEET VUVOŠÓU OS/ÁÚ OÞ OVÜ OS/OÞ OÚ ÁÚ OEÚ VÁO

# **SECTION 1: IDENTIFICATION**

GHS PRODUCT IDENTIFIERS:

PRODUCT NAME: SYNONYMS, TRADE NAMES: OTHER MEANS OF IDENTIFICATION: TotalBoat Penetrating Epoxy Hardener Part B TotalBoat Penetrating Epoxy Part B, Hardener Not Applicable

**RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:** 

USES: RESTRICTIONS ON USE: Polymer Matrix For Wood Restoration and Repair None Identified

SUPPLIER'S DETAILS: SUPPLIER:

TOTALBOAT LLC 17 Peckham Drive Bristol, RI 02809 TELEPHONE: 1 800 497 0010 FACSIMILE: 1 401 254 5829

### **EMERGENCY PHONE NUMBER:**

**INFOTRAC:** 

1 800 535 5053 (or go to www.infotrac.net)

# SECTION 2: HAZARDS IDENTIFICATION

### GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Skin Corrosion: Eye Damage: Aspiration Hazard: Aquatic Chronic: Acute Toxicity – Oral Acute Toxicity – Inhalation Acute Toxicity – Dermal Skin Sensitization:

GHS LABEL ELEMENTS:

Category 1, H314 Category 1, H318 Category 1, H304 Chronic Category 3, H412 Category 4, H302 Category 4, H332 Category 5, H313 Category 1, H317



HAZARD SYMBOLS:



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SIGNAL WORDS: HAZARD STATEMENTS: Danger

- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways.
- H313 May be harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H412 Harmful to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS:

PREVENTION:	<ul> <li>P264 Wash hands thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P271 Use only outdoors or in a well ventilated area.</li> <li>P272 Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves, clothing, and eye/face protection.</li> </ul>
RESPONSE:	<ul> <li>P301+P310 IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER.</li> <li>P331 Do NOT induce vomiting.</li> <li>P303+P361+P634+P353+P352 IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. Wash with plenty of soap and water.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical attention.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 If eye irritation persists: Get medical attention.</li> <li>P391 Collect spillage.</li> </ul>
STORAGE:	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
DISPOSAL:	P501 Dispose of contents and containers in accordance with local, regional and international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

### **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS NUMBER	CONTENT
Polyoxypropylenediamine	9046-10-0	60-75%
Benzyl Alcohol	100-51-6	25-35%
N-(2-aminoethyl)piperazine	140-31-8	5-20%

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.



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# SECTION 4: FIRST-AID MEASURES

#### DESCRIPTION OF NECESSARY FIRST-AID MEASURES:

- **INHALATION:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
- **SKIN:** Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. Get medical attention immediately.
- **EYES:** Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. Get medical attention immediately.
- **INGESTION:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

#### MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

**SYMPTOMS:** Burns. Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. Persons with sensitive airways (e.g., asthmatics) may react to vapors. See section 11 for additional information.

# INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

**TREATMENT:** Treat symptomatically.

### SECTION 5: FIRE-FIGHTING MEASURES

#### **EXTINGUISHING MEDIA:**

SUITABLE: Use water spray, foam, dry chemical or carbon dioxide.

**UNSUITABLE:** None known.

#### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

**UNUSUAL FIRE & EXPLOSION HAZARDS:** Product is not considered a fire hazard, but will burn if ignited. Closed container may rupture (due to build up in pressure) when exposed to extreme heat. **HAZARDOUS COMBUSTION PRODUCTS:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See Section 10 Hazardous decomposition products for additional information.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:** Wear self-contained breathing apparatus (SCBA) equipped with a full face piece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. See section 9 for additional information.



# SECTION 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn.

**ENVIRONMENTAL PRECAUTIONS:** Do not flush product into public sewer, water systems or surface waters.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Stop leak if without risk. Move containers from spill area. Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

# SECTION 7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Use under well-ventilated conditions. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:** Keep away from heat, sparks and open flames. Store dry at 15-40°C, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning.

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

#### CONTROL PARAMETERS:

#### **OCCUPATIONAL EXPOSURE LIMITS: ACGIH-TWA** ACGIH-STEL CHEMICAL NAME CAS NUMBER 9046-10-0 Polyoxypropylenediamine Not available Not available 100-51-6 Not available Not available Benzyl Alcohol N-(2-aminoethyl)piperazine 140-31-8 Not available Not available

**APPROPRIATE ENGINEERING CONTROLS:** Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain air concentrations below occupational exposure standards. When necessary use mechanical handling to reduce human contact with materials.

#### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE/FACE PROTECTION:	Full face shield with safety glasses or goggles underneath are required.
SKIN PROTECTION:	Wear chemical resistant (impervious) gloves; PVC, neoprene, nitrile rubber, EVAL, butyl rubber. Wear chemical resistant protective clothing. Use good laboratory/ workplace procedures including personal protective clothing: lab coat and protective gloves.
RESPIRATORY	Wear an approved respirator (e.g., an organic vapor respirator, a full face air



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**PROTECTION:**purifying respirator for organic vapors, or a self-contained breathing apparatus)<br/>whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable<br/>exposure limit(s) of any chemical substance listed in this SDS.**GENERAL**<br/>**PROTECTION:**Eyewash fountains and safety showers are recommended in the work area.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid	UPPER/LOWER FLAMMABILTY OR EXPLOSIVE LIMITS:	Not available
COLOR:	Clear amber	VAPOUR PRESSURE:	<0.675 mm Hg at 20°C
ODOUR:	Slight	VAPOUR DENSITY:	Heavier than air
ODOUR THRESHOLD:	Not available	RELATIVE DENSITY:	0.98
PH:	Not available	SOLUBILITY(IES):	Miscible
MELTING POINT/ FREEZING POINT	Not available	PARTITION COEFFICIENT (n-octanol/water) LogKow:	Not available
INITIAL BOILING POINT AND BOILING RANGE:	Not available	AUTO-IGNITION TEMPERATURE:	Not available
FLASH POINT:	>93°C	DECOMPOSITION TEMPERATURE:	Not available
EVAPORATION RATE:	Not available	VISCOSITY:	20 cP at 25°C
FLAMMABILITY (SOLID, GAS):	Not available		

# SECTION 10. STABILITY AND REACTIVITY

**REACTIVITY:** Exothermic reactions including polymerization may occur in contact with strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

**CHEMICAL STABILITY:** This product is stable.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Exothermic reactions including polymerization may occur in contact with strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

CONDITIONS TO AVOID: Excessive heat and ignition sources.

**INCOMPATIBLE MATERIALS:** Avoid strong acids, bases, and oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes, oxides of nitrogen and other products of incomplete combustion.

# SECTION 11. TOXICOLOGICAL INFORMATION

**INFORMATION ON THE LIKELY ROUTES OF EXPOSURE:** Eyes, skin, inhalation and ingestion.

#### SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

EYES:Causes serious eye damage.SKIN:Causes severe skin burns. May cause an allergic skin reaction. May be harmful in

N: Causes severe skin burns. May cause an allergic skin reaction. May be harmful in contact with skin.



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INHALATION:	Harmful if inhaled. May be fatal if swallowed and enters airways.
INGESTION:	Harmful if swallowed.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM **EXPOSURE:** None

#### **ACUTE TOXICITY:**

CHEMICAL NAME	LC₅₀ INHALATION (RAT)	LD <sub>50</sub> ORAL (RAT)	LD <sub>50</sub> DERMAL (RABBIT)	
Polyoxypropylenediamine	Not available	2,885 mg/kg	2,978 mg/kg	
Benzyl Alcohol	4.178 mg/L (4 hrs)	1,620 mg/kg	2,000 mg/kg	
N-(2-aminoethyl)piperazine	Not available	2,140 mg/kg	880 mg/kg	
CORROSION / IRRITATION / SENSITIZATION INFORMATION:				

#### SIUN / IRRITATION / SENSITIZATION INFORMATION:

SKIN CORROSION/IRRITATION:	Skin Corrosion – Category 1
SERIOUS EYE DAMAGE/IRRITATION:	Eye Damage – Category 1
RESPIRATORY OR SKIN SENSITIZATION:	Skin Sensitization – Category 1

#### CARCINOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICOLOGY INFORMATION:

GERM CELL MUTAGENICITY:	
CARCINOGENICITY:	
REPRODUCTIVE TOXICITY:	

Information is not available. Information is not available. Information is not available.

### SPECIFIC TARGET ORGAN TOXICITY (STOT):

STOT-SINGLE EXPOSURE: STOT-REPEATED EXPOSURE: Information is not available. Information is not available.

ASPIRATION HAZARD: Aspiration Hazard – Category 1

**OTHER INFORMATION: None** 

### **SECTION 12. ECOLOGICAL INFORMATION**

TOXICITY:				
CHEMICAL NAME	TEST	SPECIES	RESULT	
Polyoxypropylenediamine	LC50 (95 hrs)	Fish	772 mg/L	
	EC50 (48 hrs)	Daphnia	418 mg/L	
	NOEC (3 hrs)	Bacteria	310 mg/L	
Benzyl Alcohol	LC50 (96 hrs)	Fish	460 mg/L	
	EC50 (48 hrs)	Daphnia	230 mg/L	
	EgC50 (72 hrs)	Algae	770 mg/L	
N-(2-aminoethyl)piperazine	Not available			
PERSISTENCE AND DEGRADABILITY:				
CHEMICAL NAME	TEST		PERIOD	RESULT
Polyoxypropylenediamine	OECD 301B Rea Evolution Test	ady Biodegradability – CO2	28 Days	0%
Benzyl Alcohol	OECD 301A Rea	ady Biodegradability – DOC Die	21 Days	95-97%



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	Away test		
N-(2-aminoethyl)piperazine	Not available		
BIOACCUMULATIVE POTENTIAL:			
CHEMICAL NAME	Log P <sub>ow</sub>	BCF	POTENTIAL
Polyoxypropylenediamine	1.34	Not available	Low
Benzyl Alcohol	1.1	Not available	Low
N-(2-aminoethyl)piperazine	Not available	Not available	Not available
MOBILITY IN SOIL:			
CHEMICAL NAME	SOIL/WATER PARTITION COE	EFFICIENT (Koc)	
Polyoxypropylenediamine	Not available		
Benzyl Alcohol	Not available		
N-(2-aminoethyl)piperazine	Not available		

**OTHER ADVERSE EFFECTS:** Additional information is not available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS:** Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate. See section 8 for recommendations on the use of personal protective equipment.

# SECTION 14. TRANSPORTATION INFORMATION

#### UN NUMBER: UN2735

#### UN PROPER SHIPPING NAME:

Amines, Liquid, Corrosive, N.O.S., (Polyoxypropylenediamine/N-Aminoethylpiperazine Solution)

#### TRANSPORT HAZARD CLASS:

U.S. DOT HAZARD CLASS:	8
CANADA TDG HAZARD CLASS:	8
EUROPE ADR/RID HAZARD CLASS:	8
IMDG CODE (OCEAN) HAZARD CLASS:	8
ICAO/IATA (AIR) HAZARD CLASS:	8

#### PACKING GROUP: III

#### **ENVIRONMENTAL HAZARDS:**

MARINE POLLUTANT:	No
HAZARDOUS SUBSTANCE (USA):	No

SPECIAL PRECAUTIONS FOR USER: Information is not available.

**TRANSPORTING IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:** Information is not available.



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LABEL FOR CONVEYANCE:



**OTHER INFORMATION:** ORM-D Consumer Commodity in 1 gal or less containers

## SECTION 15. REGULATORY INFORMATION

#### SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN QUESTION:

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV – List of substances subject to authorization, Substances of very high concern	None of the components are listed.
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	None of the components are listed.

**OTHER REGULATIONS:** Additional information is not available.

#### **CHEMICAL INVENTORIES:**

Canadian Domestic Substances List (DSL):	Y
Canadian Non-Domestic Substances List (NDSL):	Ν
European Inventory of Existing Chemical Substances (EINECS):	Y
European List of Notified Chemical Substances (ENCS):	Ν
U.S. Toxic Substances Control Act (TSCA):	Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed.

# SECTION 16. OTHER INFORMATION

REVISION DATE: April 14, 2014

LEGEND: ACGIH: American Conference of Governmental Industrial Hygienists ADR/RID: European dangerous goods transport road and rail regulations CAS No: Chemical Abstract Service Registry Number DOT: Department of Transportation (U.S.) GHS: Globally Harmonized System of Classification and Labeling of Chemicals IATA: International Air Transport Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods code **OEL: Occupational Exposure Limits** OSHA: Occupational Safety and Health Administration (U.S.) PEL: Permissible Exposure Limit **RQ: Reportable Quantity** SDS: Safety Data Sheet STEL: Short Term Exposure Limit (15 minute Time Weighted Average) TDG: Canadian Transportation of Dangerous Goods Act and Regulations **UN: United Nations** U.S.: United States



# SAFETY DATA SHEET VUVOČOU OLIVIO DO VU OLIVO ČÁDU U Ý VÁPO EU O OD DO LÍVO EV AÓ

#### USERS RESPONSIBILITY/DISCLAIMER OF LIABILITY:

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.