

# SAFETY DATA SHEET



Issue Date: May 12, 2015

Revision Date: May 12, 2015

Version: 2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name: Polytops GC Grout Part B**

**Other Means of Identification**

SDS #: F2410B

**Recommended Use: Epoxy Grout**

**Restrictions on Use: No Data**

**Supplier of the Safety Data Sheet including Address:**

ChemMasters Inc.  
300 Edwards Street  
Madison, OH 44057

**Telephone Numbers**

**Company Phone Number**

Phone: 800-486-7866, 440-428-2105

Fax: 440-428-7091

**Emergency Telephone:** ChemTrec 800-424-9300 (United States & Canada), International Call: 1-703-527-3887

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**

**OSHA Hazards:**

**Causes severe skin burns and eye damage, Causes serious eye damage, Harmful if swallowed or in contact with skin, May cause an allergic skin reaction, May cause respiratory irritation, Harmful to aquatic life with long lasting effects.**

**GHS Classification:**

**Acute Toxicity – Oral – Category 4**

**Acute Toxicity – Dermal – Category 4**

**Skin Corrosion/Irritation – Category 1B**

**Sensitization – Skin – Category 1**

**Eye Damage/Irritation – Category 1**

**Specific Target Organ Toxicity (Single Exposure) - Category 3**

**Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard - Category 3**

**Label Elements, including precautionary statements**

**Pictograms:**



**Signal Word: Danger**

**Hazard Statements:**

- H302 Harmful if swallowed
- H312 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
- H335 May cause respiratory irritation
- H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement(s)****Prevention:**

- P260 Do not breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands and skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately Call a POISON CENTER/doctor.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P310 Immediately Call a POISON CENTER/doctor.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water or shower.
- P363 Wash all contaminated clothing before reuse.
- P310 Immediately Call a POISON CENTER/doctor.
- P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
- P333+P313 If skin irritation or rash occurs: Get medical advice or attention.

- Storage:** P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store Locked Up

**Disposal:** P501 Dispose of contents/container in accordance with local/regional/national regulations.

**Hazards not otherwise classified:** None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Component

Triethylenetetramine	CAS#: 112-24-3	90-100%
Aminoethylethanolamine	CAS#: 111-41-1	<5%
Aminoethylpiperazine	CAS#: 140-31-8	<5%
Tetraethylenepentamine	CAS#: 112-57-2	<5%

Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels. Where a range is displayed, the exact percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### First Aid Measures:

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

**Ingestion:** IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately call a POISON CENTER/doctor.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash off with plenty of soap and water. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice or attention.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Material is not combustible. Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide for the surrounding fire.

**Specific Hazards Arising from the Chemical:** No specific data available.

#### Hazardous Combustion Products

Oxides of Carbon and Nitrogen

#### Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and full protective gear for firefighting.

**Further Information:** See Section 7 for safe handling and storage.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

In case of spill wear appropriate personal protective equipment during any cleanup and response activities. Avoid skin contact and inhalation.

#### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains, soil or waterways.

### **Methods and Material for Containment and Cleaning Up**

Dike and contain spill with inert absorbent materials. Soak up with inert material and keep in suitable, closed containers for disposal. Dispose of in accordance with specified local/regional/national/international regulations for disposal.

## **7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

### **Conditions for Safe Storage, Including any Incompatibilities**

**General information:** Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat. Keep from freezing. Store product above 50 degrees F/10 degrees C and below 95 degrees F/35 degrees C.

**Safe Storage:** Do not store with oxidizing agents. Store away from acids.

**Incompatibilities:** None known

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

### **Exposure Guidelines**

#### **Component Exposure Limits**

Triethylenetetramine: AIHA WEEL: 6 mg/m<sup>3</sup>, 1 ppm SKIN

### **Appropriate Engineering Controls**

Local Ventilation: Recommended

General Ventilation: Recommended

### **Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection:** Use proper protection – Safety Glasses as a minimum

**Skin and Body Protection:** Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.). Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.

**Respiratory Protection:** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

### **General Hygiene Considerations:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before & after breaks and work day.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on Basic Physical and Chemical Properties**

#### **Physical State**

**Appearance:** Liquid

**Color:** Amber

**Odor:** Amine

**Odor threshold:** No Data

<u>Property</u>	<u>Value</u>	<u>Remarks – Method</u>
Vapor Pressure	Not Available	
Vapor Density	5	
Relative Density	Not Available	
pH:	10-11	
Melting/Freezing Point	32 Degrees F (0 Degrees C)	
Solubility	Soluble in Water	
Evaporation Rate	<1	
Flash Point	344 Degrees F (118 Degrees C)	Closed Cup
Flammability Limits	1.1% LEL, 6.4% UEL	
Flammability (Solid, gas)	Not Relevant	
Initial Boiling Point/Boiling Range	526 Degrees F (275 Degrees C)	
Decomposition Temperature	>464 Degrees F (>240 Degrees C)	
Viscosity	25-35 cP @ 20°C	
Specific Gravity	0.98	Density: 8.16 lb./gal. +/- 0.1

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** Reacts with peroxides and other radical forming substances. Reacts with oxidizing agents and acids.

**Conditions to Avoid:** Keep away from heat. Keep from Freezing

**Incompatible Materials:** None Known

**Hazardous Decomposition Products:** Oxides of Carbon and Nitrogen, Ammonia

## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Skin Contact, Eye Contact, Inhalation  
(Ingestion is not a likely route of exposure under normal conditions of use.)

**Symptoms of Exposure:**

Skin: Brief contact with skin may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.

Eye: Contact with eye may cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Inhalation: Inhalation of vapors or mist may cause irritation of the respiratory system.

Ingestion: Swallowing will lead to a strong caustic effect on the mouth and throat and to the danger of perforation of the esophagus and stomach.

**Numerical measures of toxicity:**

Ingredient: Triethylenetetramine, CAS#: 112-24-3

Acute Toxicity – Oral: LD50 1,700 mg/Kg Rat; Dermal: LD50 1,460 mg/kg

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure**

**Sensitization:** Sensitization is possible through skin contact. Sensitizing effect through inhalation is possible by prolonged exposure.

**Reproductive Toxicity:** Not classified as a reproductive toxin.

**Carcinogenicity:** Not characterized as a potential carcinogen by IARC, NTP or OSHA.

## 12. ECOLOGICAL INFORMATION

**Eco toxicity:** This product contains materials that are harmful to the aquatic life with long lasting effects.

### **Acute Toxicity**

Fish: LC50 (Pimephales promelas) 330 mg/l 96 h  
Aquatic invertebrates: EC50 (Daphnic magna) 31.1 mg/l 48 h  
Aquatic plants: EC50 (Green Algae) 20 mg/l 72 h  
Bacteria: EC50 (Bacteria, growth inhibition) 680 mg/l 16 h

### **Chronic Toxicity**

NOEC (Algae) <2.5 mg/l 72 h  
EC10 (Daphnia) 1.9 mg/l 21 d  
EC10 (Bacteria) 42.5 mg/l 30 min

**Persistence and Degradability:** Not readily biodegradable

**Bioaccumulation:** Octanol/water partition coefficient (Log P<sub>ow</sub>): -2.65 (Low potential to bioaccumulate)

**Mobility:** Potential for mobility in soil is very high.

**Other Adverse Effects:** No additional information.

## 13. DISPOSAL CONSIDERATIONS

### **Waste Treatment Methods**

**Disposal of Wastes:** This product is a hazardous waste under RCRA. Dispose of in conformance with all federal, state and local regulations.

**Contaminated Packaging:** Dispose of as unused material.

## 14. TRANSPORT INFORMATION

**DOT:** UN2259, Triethylenetetramine, 8, II

**IMDG:** UN2259, Triethylenetetramine, 8, II

**IATA:** UN2259, Triethylenetetramine, 8, II

## 15. REGULATORY INFORMATION

### **International Inventories**

**TSCA:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

### **US Federal Regulations**

**SARA 302:** None Known

**SARA 311/312 Hazard Categories:** Acute Health Hazard, Delayed (Chronic) Health Hazard

**SARA 313 Hazard Categories:** None Known

**CWA (Clean Water Act):** None Known

### **Supplemental State Compliance Information**

California:

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

**None Known**

Pennsylvania Right To Know:

<u>CAS Number</u>	<u>Component Name</u>
140-31-8	Aminoethylpiperazine
112-24-3	Triethylenetetramine,
111-41-1	Aminoethylethanolamine
112-57-2	Tetraethylenepentamine

**U.S. EPA Label Information:** No Data

**Canada**

WHMIS Classification: Class D2A (Very Toxic material causing other toxic effects), E (Corrosive Material)

Symbol: Stylized T, Corrosive



## 16. OTHER INFORMATION

**HMIS Classification:**

Health hazard: 3

Flammability: 1

Physical Hazards: 0

**NFPA Rating:**

Health hazard: 3

Fire: 1

Reactivity Hazard: 0

**Issuance Date: May 12, 2015**

**Revision Date: May 12, 2015**

**Revision Note: GHS**

**Date of Previous Version: October 31, 2002**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**