



## Everchem T5000 Safety Data Sheet

### ***1. Chemical product and company identification***

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**COMPANY INFORMATION** : Everchem Specialty Chemicals.

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USA

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**WEBSITE** : www.everchem.com

**EMERGENCY PHONE NUMBER** : CHEMTREC (24 HOURS): 800-424 9300

**RECOMMENDED USE** : USED IN POLYURETHANE MANUFACTURING.

**RESTRICTIONS ON USE** : RESERVED FOR INDUSTRIAL AND PROFESSIONAL USE.

Structural formula:



$$X+Y+Z \approx 85$$

Chemical name: Polyoxypropylene diamine  
(Everchem T5000)

Molecular weight: 5000

CAS. NO.: 64852-22-8

Chemical family: aliphatic, diamines

Synonyms: Polyetheramine

### ***2. Composition/information***

Hazard material content: total amine: 0.50-0.54mmol/g

### ***3. Hazard identification***

#### **Emergency overview**

Caution: Toxic if swallowed or absorbed through the skin. Causes skin irritation. Risk of serious damage to eyes.

Harmful if swallowed.

Use with local exhaust ventilation.

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Wear

NIOSH-certified chemical goggles.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible. Wear full

face shield if splashing hazard exists.

#### **Potential health effects**

##### **Primary routes of exposure**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

##### **Medical conditions aggravated by overexposure:**

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

See MSDS section 11 - Toxicological information.

#### ***4. First-aid measures***

**General advice:**

Remove contaminated clothing. First aid personnel should pay attention to their own safety.

**If inhaled:**

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

**If on skin:**

Wash affected areas thoroughly with soap and water. Remove contaminated clothing. Wash soiled clothing immediately. Immediate medical attention required.

**If in eyes:**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

**If swallowed:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

#### ***5. Fire-fighting measures***

Flash point: 213 °C

**Suitable extinguishing media:**

water, dry extinguishing media, carbon dioxide, foam

**Hazards during fire-fighting:**

No particular hazards known.

**Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:**

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

#### ***6. Accidental release measures***

**Personal precautions:**

Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

**Environmental precautions:**

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

**Cleanup:**

Spills should be contained, solidified, and placed in suitable containers for disposal.

#### ***7. Handling and storage***

**Handling**

**General advice:**

Containers should be opened carefully in well-ventilated areas to avoid static discharge.

**Protection against fire and explosion:**

Take precautionary measures against static discharges.

**Storage General advice:**

Containers should be stored tightly sealed in a dry place.

Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition - No smoking. Keep container tightly closed.

**Storage incompatibility:**

General: Segregate from acids and acid forming substances.

**Storage stability:**

Keep container dry because product takes up the humidity of air.

## ***8. Exposure controls and personal protection***

### **Advice on system design:**

Provide local exhaust ventilation to control vapours/mists.

### **Personal protective equipment**

#### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Do not exceed the maximum use concentration for the respirator face piece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full face piece pressure demand self-contained breathing apparatus (SCBA) or a full face piece pressure demand supplied-air respirator (SAR) with escape provisions. **Hand protection:**

Chemical resistant protective gloves

#### **Eye protection:**

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

#### **General safety and hygiene measures:**

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact.

## ***9. Physical and chemical properties***

Form: liquid Odour:

amine-like Colour:

light yellow

Freezing point: < -50°C

Flash point: 200°C Boiling

point: >200 °C

Vapour pressure: 1.6 mbar ( 20 °C) 10.5 mbar ( 55 °C)

Density: 0.998 g/cm<sup>3</sup> ( 20 °C) Viscosity,

kinematic: 819 cst ( 25 °C) Solubility in

water: miscible( 20 °C)

## ***10. Stability and reactivity***

### **Conditions to avoid:**

No conditions known that should be avoided.

### **Substances to avoid:**

No substances known that should be avoided.

### **Hazardous reactions:**

The product is chemically stable.

### **Decomposition products:**

No hazardous decomposition products known.

### **Corrosion to metals:**

Corrosive effect on metals.

## ***11. Toxicological information***

### **Acute toxicity**

#### **Oral:**

LD50/rat: 220 mg/kg

Moderately toxic.

#### **Skin irritation:**

Non corrosive. (Epiderm Corrosivity Test)

Irritant.

Literature data. **Eye**

**irritation** : Rabbit:

Corrosive.

## 12. Ecological information

### Environmental fate and transport

#### Biodegradation:

Test method: OECD 301 A (old version)

Method of analysis: DOC reduction Degree of elimination: 0 - 10 % Evaluation: Poorly biodegradable.

**Adsorbable organically-bound halogen (AOX):** This product contains no organically-bound halogen.

#### Environmental toxicity

##### Acute toxicity to aquatic invertebrates:

Daphnia magna/EC50 (48 h): 13 mg/l

##### Toxicity to microorganisms:

OECD Guideline 209 aquatic

activated sludge, domestic/EC50 (0.5 h): approx. 1,000 mg/l  
Nominal concentration.

##### Other ecotoxicological advice:

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Do not release untreated into natural waters.

## 13. Disposal considerations

### Waste disposal of substance:

Dispose of in a licensed facility.

Do not discharge into waterways or sewer systems without proper authorization.

### Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

## 14. Transport information

### Land transport

#### USDOT

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains POLYETHERDIAMINE) Hazard class: 8

ID number: UN 2735

Packing group: III

#### Sea transport

##### IMDG

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains POLYETHERDIAMINE)

Hazard class: 8

ID number: UN 2735

Packing group: III

Marine pollutant: NO

### Air transport

#### IATA/ICAO

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. contains (POLYETHERDIAMINE) Hazard class: 8

ID number: UN 2735

Packing group: III



## ***15. Regulatory information***

### **Federal Regulations**

**Registration status:** TSCA,  
US released / listed

**OSHA hazard category:** Toxic - dermal, Acute target organ effects reported, Corrosive to skin and/or eyes

## ***16. Other information***

### **HMIS III rating**

Health: 3 Flammability: 1 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.