



1400 N. Providence Road, Suite 302, Media, PA 19063

Tel: 484-234-5030 Fax: 484-234-5037

## Everchem T5000

### Safety Data Sheet

#### 1. Chemical product and company identification

Structural formula :  $\text{CH}_2\text{O}[\text{CH}_2\text{CH}(\text{CH}_3)\text{O}]_x \text{CH}_2\text{CH}(\text{CH}_3)\text{NH}_2$

$\text{CHO}[\text{CH}_2\text{CH}(\text{CH}_3)\text{O}] \text{CH}_2\text{CH}(\text{CH}_3)\text{NH}_2$

$\text{CH}_2\text{O}[\text{CH}_2\text{CH}(\text{CH}_3)\text{O}] \text{CH}_2\text{CH}(\text{CH}_3)\text{NH}_2$   
 $X+Y+Z \approx 85$

Chemical name: Trifunctional primary amine (T-5000)

Molecular weight: 5000

CAS. NO.: 64852-22-8

Chemical family: aliphatic, amines

Synonyms: Polyetheramine

#### 2. Hazard identification



##### Emergency overview

In case of an Emergency Contact Chemtrec: 800-424-9300 Outside U.S. 703-527-3887

DANGER: CORROSIVE LIQUID. TOXIC IF ABSORBED THROUGH SKIN.

PROLONGED OR REPEATED CONTACT MAY RESULT IN DERMATITIS.

Causes skin burns

MAY CAUSE RESPIRATORY TRACT IRRITATION.

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

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



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may be a route of entry for liquidified gases.

### 3. Composition/information on ingredients

Hazard material content: total amine:0.95-1.05mmol/g

### 4. First-aid measures

**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. 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, alcohol-resistant foam, carbon dioxide

**Protective equipment for fire-fighting:**

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

**Further information:**

If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

**NFPA Hazard codes:**

Health : 3 Fire: 0 Reactivity: 0 Special:

### 6. Accidental release measures

**Personal precautions:**

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



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**Environmental precautions:**

Do not empty into drains.

**Cleanup:**

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

## 7. Handling and storage

### Handling

**General advice:**

Keep away from sources of ignition - No smoking. Keep container tightly sealed.

**Protection against fire and explosion:**

Prevent electrostatic charge - sources of ignition should be kept well clear – fire extinguishers should be kept handy.

Storage General advice: Keep container tightly closed in a cool, well-ventilated place.

**Storage incompatibility:**

General: Segregate from acids and acid forming substances.

## 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.

**General safety and hygiene measures:**

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



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## 9. Physical and chemical properties

Form: liquid

Odour: amine-like

Colour: light yellow

pH value, 5 g/l, 20 °C: 10.5

Melting point: No data

Boiling point: >200°C

Specific gravity, 20/20 °C: 0.99

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

Refractive index, nD 20: 1.4514

Flash point, °C: 200

Water, wt%: ≤0.25

Viscosity, dynamic, cps, 25°C: 247

Miscibility with water: miscible

## 10. Stability and reactivity

### Substances to avoid:

Acids, isocyanates, oxidizing agent

### Hazardous reactions:

Evolution of heat under influence of acids.

## 11. Toxicological information

### Acute toxicity

#### Oral:

LD50/rat: 480 mg/kg

Literature data.

#### Dermal:

LD50/rabbit: 2090 mg/kg

Literature data.

#### Skin irritation:

Rabbit: Corrosive.

Literature data.

#### Eye irritation:



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As the product corrodes the skin, it can be expected to have a similar effect on the eyes also. Literature data.

**Chronic toxicity**

**Other information:**

No experimental evidence available for genotoxicity in vitro (Ames test negative).

**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 eliminated from water.

Poorly biodegradable.

**Adsorbable organically-bound halogen (AOX):**

This product contains no organically-bound halogen.

**Environmental toxicity**

**Acute and prolonged toxicity to fish:**

golden orfe/LC50 (96 h): > 220 - < 460 mg/l

The product has not been tested. The statement has been derived from products of a similar structure and composition.

**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:**

Incinerate in a licensed facility.

Do not discharge substance/product into sewer system.

**Container disposal:**

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



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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

**SARA hazard categories (EPCRA 311/312):** Acute

## 16. Other information



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**HMIS III rating**

Health: 3 Flammability: 0 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.