



1121 5th Street NW
Washington, DC 20001
www.edvotek.com

Safety Data Sheet

Version 2
Revision Date 10/30/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: β -mercaptoethanol
Product Number:
Brand: Edvotek
Supplier: Edvotek
1121 5th Street NW
Washington, DC
20001

Telephone: 1-800-338-6835
or 202-370-1500
Fax: 202-370-1501
Emergency Phone # (For both supplier
and Manufacturer): 202-370-1500

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Acute toxicity
Acute aquatic toxicity
Chronic aquatic toxicity
Serious eye damage
Flammable liquids
Combustible liquid.
Toxic if swallowed.
Toxic if swallowed or if inhaled
Fatal in contact with skin.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Toxic if inhaled.

May cause damage to organs through prolonged or repeated exposure if swallowed.

Very toxic to aquatic life.

GHS Classification

Flammable liquids 4,
Acute toxicity, Oral 3
Acute toxicity, Inhalation 3
Acute toxicity, Dermal 2
Skin irritation 2
Serious eye damage 1
Skin sensitisation 1
Acute aquatic toxicity 1
Chronic aquatic toxicity 1

Signal word**Danger****Pictograms****Hazard statement(s)****H227** Combustible liquid.**H301 + H331** Toxic if swallowed or if inhaled**H310** Fatal in contact with skin.**H315** Causes skin irritation.**H317** May cause an allergic skin reaction**H318** Causes serious eye damage.**H373** May cause damage to organs (Liver, Heart) through prolonged or repeated exposure if swallowed.**H410** Very toxic to aquatic life with long lasting effects.**Precautionary statement(s)****P210** Keep away from heat/sparks/open flames/hot surfaces.
- No smoking.**P260** Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.**P262** Do not get in eyes, on skin, or on clothing.**P264** Wash skin thoroughly after handling.**P270** Do not eat, drink or smoke when using this product.**P271** Use 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/ eye protection/ face protection.**P301 + P310 + P330 IF****SWALLOWED:** Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.**P302 + P350 + P310 IF ON SKIN:**

Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.**P304 + P340 + P311 IF INHALED:**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 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 or doctor/ physician.

P314 Get medical advice/ attention if you feel unwell.**P333 + P313** If skin irritation or rash occurs: Get medical advice/ attention.**P361** Remove/Take off immediately all contaminated clothing.**P370 + P378** In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.**P391** Collect spillage.**P403 + P233** Store in a well-ventilated place. Keep container tightly closed

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification:

Health hazard: 4

Flammability: 2

Physical hazard: 0

Reactivity Hazard: 0

Potential Health Effects:

Inhalation Harmful if inhaled. Causes respiratory tract irritation.

Skin- Harmful if absorbed through skin. Causes skin irritation.

Eyes- Cause eye irritation.

Ingestion- Harmful if swallowed.

NFPA Rating:

Health hazard: 3

Fire: 2

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 2-Hydroxyethylmercaptan, Thioethylene glycol, β -Mercaptoethanol, beta mercaptoethanol, BME

Formula: C_2H_6OS

Molecular weight: 78.13 g/mol

Chemical name	EC No.	CAS -No	Concentration
2-Mercaptoethanol	200-464-6	60-24-2	

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Immediately wash off with soap and plenty of water. Get medical attention if symptoms develop.

In case of eye contact

Flush eyes with water as a precaution. Get medical attention immediately if irritation persists.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if symptoms develop.

5. FIREFIGHTING MEASURES

Conditions of flammability

Flammable.

Suitable extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Carbon oxides, Sulphur oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Prevent skin/eye contact. Use personal protective equipment as needed.

Environmental precautions

Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Methods and materials for containment and cleaning up

Clean up spills immediately. Use absorbent materials if needed and dispose into a chemical waste container.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage

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

Incompatible storage

No products known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Wear protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Eye protection

Avoid eye contact with this material. Wear chemical safety goggles.

Skin and body protection

Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash and dry hands at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form liquid
Colour colorless

Safety data

pH	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition Temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour Density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No further relevant data available.

Conditions to avoid

Heat, flames and sparks.

Materials to avoid

Metals, Oxidizing agents.

Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity**Oral LD50**

LD50 Oral - Rat - 98 - 162 mg/kg
LC50 Inhalation - Rat - 4 h - 2 mg/l
LC50 Inhalation - Rat - 4 h - 625 ppm
LD50 Dermal - Rabbit - 112 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

In vitro tests showed mutagenic effects

Reproductive toxicity

no data available

Teratogenicity

no data available

Aspiration hazard

no data available

Synergistic effects

no data available

12. ECOLOGICAL INFORMATION**Toxicity**

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13.**DISPOSAL CONSIDERATIONS****Product**

Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

Contaminated packaging

Dispose of as unused product.

14.**TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15.**REGULATORY INFORMATION****OSHA Hazards**

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Chronic aquatic toxicity

Serious eye damage

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SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards.

16. OTHER INFORMATION

For educational use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.
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