

MATERIAL SAFETY DATA SHEET**Product Name:** 2-Mercaptoethanol**CAS No.:** 60-24-2**Version:** 0**1. Identification**

Product Code : 92626, 92441
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2. Hazards Identification**Hazard classification**

Acute toxicity, Oral : Category 3
Acute toxicity, Inhalation : Category 3
Acute toxicity, Dermal : Category 2
Skin irritation : Category 2
Serious eye damage : Category 1
Skin sensitization : Sub-category 1A
Reproductive toxicity : Category 2
Specific target organ toxicity - repeated exposure, Oral : Category 2
Short-term (acute) aquatic hazard : Category 1
Long-term (chronic) aquatic hazard : Category 2

**Labels elements**

Hazard symbol

Signal word : Danger
Hazard statement : Toxic if swallowed or if inhaled.
Fatal in contact with skin.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage. H361d Suspected of damaging the unborn child.
May cause damage to organs (Liver, Heart) through prolonged or repeated exposure if swallowed.
Very toxic to aquatic life with long lasting effects.

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Precautionary statement : Avoid release to the environment.
Wear protective gloves/ protective clothing/ eye protection/
face protection/ hearing protection.
IF SWALLOWED: Immediately call a POISON CENTER/
doctor.
IF ON SKIN: Wash with plenty of water. Immediately call a
POISON CENTER/ doctor.
IF INHALED: Remove person to fresh air and keep
comfortable for breathing. Call a POISON CENTER/ doctor.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue
rinsing.

3. Composition/information on ingredients

Ingredient : Thioethylene glycol
2-Hydroxyethylmercaptan BME
 β -Mercaptoethanol (BME)

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Assay : 95.0 – 98.0%

Formula : C₂H₆OS

Molecular Weight : 78.13 g/mol

4. First Aid Measures**Description of first aid measures**

General advice : Consult a physician. Show this safety data sheet to the doctor
in attendance.

Inhalation : Remove victim to fresh air and keep at rest in a position
comfortable for breathing. Get medical advice/attention if you
feel unwell.

Skin contact : Remove/Take off immediately all contaminated clothing.
Gently wash with plenty of soap and water. If skin irritation or
rash occurs: Get medical advice/attention.

Eye contact : Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing. If
eye irritation persists: Get medical advice/attention.

Swallowed : Get medical advice/attention if you feel unwell. Rinse mouth.

Most important symptoms and effects, both acute and delayed : The most important known symptoms and effects are
described in the labelling (see section 2) and/or in section 11

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Indication of any immediate medical attention and special treatment needed Treatment : No data available

5. Fire fighting measures**Extinguishing media**Suitable extinguishing media : Water Foam Carbon dioxide (CO₂) Dry powder**Special hazards arising from the substance or mixture**

: Carbon oxides, Sulfur oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

Advice for firefighters

: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

6. Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

: Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions

: Do not let product enter drains.

Methods and materials for containment and cleaning up

: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

7. Handling and storage**Precautions for safe handling**

: Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Conditions for safe storage, including any incompatibilities

: Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature 2 - 8 °C

8. Exposure Controls / Personal Protection**Exposure limit**

: No data available

Appropriate engineering

: Handle in accordance with good industrial hygiene and safety

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controls	practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	
Respiratory protection	: Dust respirator. Follow local and national regulations
Hand protection	: Protective gloves.
Eye protection	: Safety glasses. A face-shield, if the situation requires.
Skin and Body Protection	: Protective clothing. Protective boots, if the situation requires.

9. Physical and Chemical Properties

Appearance	: Clear to pale yellow liquid.
Odor	: No data available
pH	: 4,5 - 6 at 500 g/l at 20 °C
Melting point/freezing point	: Melting point: < -50 °C
Initial boiling point and boiling range	: 157 °C - lit.
	: 74 °C - closed cup
Flash Point	
Vapor pressure	: 0,76 hPa at 20 °C
Vapor density	: 2,70 - (Air = 1.0)
Relative density	: 1,114 g/cm ³ at 25 °C
Solubility in water	: No data available
Solubility (other)	: No data available

10. Stability and Reactivity

Reactivity	: Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical stability	: The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	: No data available
Conditions to avoid	: Strong heating.
Incompatible materials	: Metals, Oxidizing agents
Hazardous decomposition products	: Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulfur oxides

11. Toxicological Information**Information on toxicological effects**

Acute toxicity	: No data available
Skin corrosion/irritation	: No data available

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Serious eye damage/eye irritation : No data available
Respiratory or skin sensitization : No data available
Germ cell mutagenicity : No data available
Carcinogenicity
IARC : No data available
NTP : No data available
OSHA : No data available
Reproductive toxicity : No data available
Route of Exposure : No data available
Signs and Symptoms of Exposure : 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.
Other adverse effects : No data available.

13. Disposal consideration

Disposal instructions : Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging : Dispose of as unused product.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	2966	THIOGLYCOL	6.1	II	YES
IMDG	2966	THIOGLYCOL	6.1	II	YES
IATA	2966	THIOGLYCOL	6.1	II	NO

15. Regulatory Information

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This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :**23/09/2020**Version : 0**

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