

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: 2-MERCAPTO ETHANOL
 CAS#: 60-24-2
 C.I. No.: Not available.
 Synonym: Not available.
 Chemical Name: Not available.
 Chemical Formula: Not available.

Composition and Information on Ingredients

Name	S.K.U	% by Weight
2-MERCAPTO ETHANOL	GCS-6563	100

Hazards Identification

Classification of the substance or mixture

Classification according to Regulation

(EC) No 1999/45 Classification : T; R24
 Xn; R20/22
 C; R34
 N; R51-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332 Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311 Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314 Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP : Aquatic Chronic 2) H411

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII ``of Regulation REACH.

First Aid Measures

Description of first aid measures

Inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor. Call a POISON CENTER or doctor if you feel unwell.

Skin contact

Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

Eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes.

Ingestion :

Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse mouth.

Call a POISON CENTER or doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Causes severe skin burns and eye damage. Danger of serious damage to health by prolonged exposure through inhalation. Swallowing a small quantity of this material will result in serious health hazard.

Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Fire and Explosion Data**Extinguishing media**

Extinguishing media

Suitable extinguishing media : Foam, Dry powder, Carbon dioxide, Water spray, Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

Thermal decomposition generates :
Corrosive vapours.

Advice for fire-fighters

Protection against fire : Do not enter fire area without proper
protective equipment,
including respiratory protection.

Special procedures : Exercise caution when fighting any chemical
fire. Avoid (reject) fire-fighting water to enter environment.

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures For emergency responders : Equip cleanup crew with proper protection.

For non-emergency personnel : Evacuate unnecessary personnel.
Ventilate area.

Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.
Notify authorities
product enters
sewers or
public waters.
Avoid release to
the
environment.

Methods and materials for containment and cleaning

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections

See section 8. Exposure controls/personal protection

Handling and Storage

Precautions for safe handling
Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Avoid breathing dust, fume, gas, mist, vapours, spray. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.
Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.
Special precautions : Avoid breathing dust, fume, gas, mist, vapours, spray.

Conditions for safe storage, including any incompatibilities
Storage : Keep only in the original container in a cool, well ventilated place. Keep

Storage - away from
ignition. Direct sunlight.

container closed when not in use.
: Strong bases. Strong acids. Sources of

Specific end uses
Specific end use(s) : None.

Exposure Controls/Personal Protection

- | | |
|---------------------------------|----------------------------------------------------------------------------|
| Personal protection | : Avoid all unnecessary exposure. |
| • <u>Respiratory protection</u> | : In case of insufficient ventilation, wear
<u>suitable respiratory</u> |
| | equipment. |
| • <u>Hand protection</u> | : <u>Wear protective gloves.</u> |
| • <u>Skin protection</u> | : <u>Wear suitable protective clothing.</u> |
| • <u>Eye protection</u> | : <u>Chemical goggles or safety glasses.</u> |
| • <u>Others</u> | : <u>When using, do not eat, drink or smoke.</u> |

Control parameters

Occupational Exposure Limits : No data available.

Physical and Chemical Properties

Information on basic physical and
chemical properties

Physical state at 20 °C	: Liquid
Colour	: Pale pinkish colour
Odour	: Disagreeable odor
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: < -50 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 295 °C
Flammability (solid, gas)	: N/A
Flash point [°C]	: 68 °C
Boiling point [°C]	: 157 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 0.76 hPa at 20 °C
Vapour pressure mm/Hg	: N/A
Vapour density	: 2,7
Density [g/cm ³]	: 1,114

Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Soluble in water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 4.5 - 6 at 500 g/l a
Viscosity at 40°C [mm ² /s]	: N/A
Other information	
Explosive properties	: N/A
Explosion limits - upper [%]	: 18%
Explosion limits - lower [%]	: 2,30%
Oxidising properties	: No data available.

Stability and Reactivity Data

Reactivity

Reactivity : Not established.

Chemical stability

Chemical stability : Stable under recommended storage conditions.

Possibility of

hazardous

reactions

Hazardous

reactions :

Not established.

Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

Incompatible materials

Materials to avoid : Strong acids. Strong bases.

Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

Thermal decomposition generates :

Corrosive vapours.

Toxicological Information

Information on toxicological effects

Acute toxicity

- Inhalation : Harmful if inhaled.
- Dermal : Toxic in contact with skin.
- Ingestion : Harmful if swallowed.

Corrosion : Causes severe skin burns and eye damage.

Irritation : Based on available data, the classification criteria are not met.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met. Carcinogenicity : Based on available data, the classification criteria are not met. Toxic for reproduction : Based on available data, the classification criteria are not met. STOT-single exposure : Based on available data, the classification criteria are not met. STOT-repeated exposure : Based on available data, the classification criteria are not met. Aspiration hazard : Based on available data, the classification criteria are not met.

Ecological Information

Toxicity

Toxicity information : Very toxic to aquatic life with long lasting effects.

Persistence – degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

Bioaccumulative potential

Bioaccumulative potential :

Not established.

Mobility in soil

Mobility in soil : Not established.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Other adverse effects

Environmental precautions : Avoid release to the environment.

Disposal Considerations

Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions : Hazardous waste due to toxicity.

Transformation Information

Land transport (ADR-RID)

Proper shipping name : THIOGLYCOL
UN N° 2966

H.I. nr **60**

ADR - Class **: 6.1**

Labelling - Transport : 6.1 : Toxic substances.

ADR - Group **II**

Sea transport (IMDG) [English only]

Proper shipping name : THIOGLYCOL
UN N° 2966

IMO-IMDG - Class or division : 6.1 : Toxic substances.

IMO-IMDG - Packing group **II**

Air transport (ICAO-IATA)

[English only] Proper

shipping name **: THIOGLYCOL**

UN N° 2966

IATA - Class or division : 6.1 : Toxic substances.

IATA - Packing group **II**

Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or

mixture Safety, health and environmental : Ensure all national/local regulations are observed.

regulations/legislation specific for the substance or mixture

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions. REACH Authorisation - Annex XIV : The components of this product are not subject to authorization. Chemical Safety Assessment
Chemical Safety Assessment : It has not been carried out.



Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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