

SAFETY DATA SHEET

THIOLACTIC ACID

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name THIOLACTIC ACID
In-house No. 1645
Supplier AB GÖTEBORGS TERMOMETERFABRIK
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS No.	Content	Symbol	R-phrases
THIOLACTIC ACID	201-206-5	79-42-5	98 %	-	

See section 16 for explanations to R-phrases

EU index No. 0
EC No. 201-206-5
Gross formula C₃H₆O₂S
CAS No. 79-42-5

3. HAZARDS IDENTIFICATION

EYE CONTACT: causes serious irritation and possibly damage to the cornea. SKIN CONTACT: causes reddening and pain. May cause burns. INGESTION: harmful if swallowed. INHALATION: harmful by inhalation.

4. FIRST AID MEASURES

Inhalation Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention.

Ingestion Promptly get affected personnel to drink large volumes of water to dilute the swallowed chemical. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately!

Skin Rinse the skin immediately with lots of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Eyes Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing media Water spray, fog or mist. Powder, foam or CO₂.

Special fire fighting procedures Move container from fire area if it can be done without risk. Avoid breathing fire

vapours.

6. ACCIDENTAL RELEASE MEASURES

Spill cleanup methods Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid contact with skin or inhalation of spillage, dust or vapour. Wear necessary protective equipment. Collect with absorbent, non-combustible material into suitable containers. Flush area with water.

7. HANDLING AND STORAGE

Usage precautions Avoid spilling, skin and eye contact. Do not use in confined spaces without adequate ventilation and/or respirator. Eye wash facilities and emergency shower must be available when handling this product.

Storage precautions Keep in cool, dry, ventilated storage and closed containers.

Storage criteria Flammable liquid storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation Work in fume cupboard.

Respirators If ventilation is insufficient, suitable respiratory protection must be provided. Gas cartridge (organic substances).

Protective gloves Multi-layer material (eg 4H, Saranex).

Eye protection Use approved safety goggles or face shield.

Other Protection Wear appropriate clothing to prevent reasonably probable skin contact.

Hygienic work practices Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid. Oily. Solid in cold weather.

Colour Colourless.

Odour Unpleasant.

Mol. weight 106.14

Melt./Freez. point (°C, interval) 10 - 14

Density/specific gravity (g/ml) 1.20 **Temperature (°C)**

Solubility description Miscible with water. Soluble in: Acetone. Ethanol. Ether.

Flash point (°C) > 87 **Method**

10. STABILITY AND REACTIVITY

Stability Avoid: Heat, sparks, flames.

Materials to avoid	Strong oxidising agents. Strong reducing agents. Strong alkalis.
Hazardous decomp. products	Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Sulphurous gases (SO _x).

11. TOXICOLOGICAL INFORMATION

Health warnings	SYMPTOMS AFTER INHALATION. Coughing. Severe irritation in nose and throat. Pulmonary oedema may appear several hours/days after exposure. Corneal damage. Tearing eyes. SYMPTOMS AFTER INGESTION. Smarting in mouth and throat. Stomach pain.
Route of entry	Inhalation. Skin absorption. Ingestion.
Target organs	Eyes. Gastrointestinal tract. Respiratory system, lungs. Skin. Mucous membranes.

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Disposal methods	Confirm disposal procedures with environmental engineer and local regulations.
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14. TRANSPORT INFORMATION

Label for conveyance



ROAD TRANSPORT:

UN No. road	2936
ADR class	Division 6.1: Toxic substances.
Classification code	T1
ADR item No.	21b
ADR packing group	II, LQ17
Hazard No. (ADR)	60

RAIL TRANSPORT:

RID class No.	6.1
RID item No.	21b

15. REGULATORY INFORMATION

EC No. 201-206-5

16. OTHER INFORMATION

Explanations to R-phrases in section 2

* Information revised since the previous version of the SDS

Information sources Registry of Toxic Effects of Chemical Substances (RTECS). The Condensed Chemical Dictionary, Hawley, 11th. edition, 1987. The Merck Index, 11. edition, 1989. Dangerous Properties of Industrial Chemicals, 7th edition, Sax & Lewis, 1988. Sigma-Aldrich Material Safety Data Sheets on CD-ROM.

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