



MATERIAL SAFETY DATA SHEET

CONTACT : **LEONID CHEMICALS**
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ETHYL 2-MERCAPTOACETATE

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:

Ethyl 2-mercaptoacetate

Catalog Numbers: E050

Synonyms:

Company Information:

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SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS # : 623-51-8
Chemical Name : Ethyl 2-mercaptoacetate
% : 100%
EINECS# : 210-800-3
Hazard Symbols :
Risk Phrases :

SECTION 3- HAZARDS IDENTIFICATION

Hazard description: T Toxic

Information pertaining to particular dangers for man and environment

R 10 Flammable. R 25

Toxic if swallowed. R 36/37/38 Irritating to eyes, respiratory system and skin.

Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

Health (acute effects) = 2

Flammability = 2

Reactivity = 1



SECTION 4- FIRST AID MEASURES

Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.

Eyes:

Rinse opened eye for several minutes under running water. Then consult a doctor

Skin:

Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

Ingestion:

Do not induce vomiting; immediately call for medical help. Seek immediate medical advice.

Inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

Notes to Physician:

SECTION 5- FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Suitable extinguishing agents

In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

For safety reasons unsuitable extinguishing agents Water

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released: Carbon monoxide and carbon dioxide

Sulfur oxides (SOx) Hydrogen sulfide

SECTION 6- ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Keep away

from ignition sources.

SECTION 7 - HANDLING and STORAGE

Handling:

Information for safe handling:

Keep container tightly sealed. Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.

Storage

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Color: Colorless

Odor: Stench

	Value/Range	Unit	Method
Change in condition			
Melting point/Melting range:	Not determined		
Boiling point/Boiling range:	53-54 ° C	12mm Hg	
Sublimation temperature / start:	Not determined		
Flash point:	48 ° C		
Ignition temperature:	Not determined		
Decomposition temperature:	Not determined		

Danger of explosion:
Product is not explosive. However, formation of explosive air/vapor mixtures is possible.
Explosion limits:
Lower: Not determined
Upper: Not determined
Vapor pressure: Not determined
Density: at 20 ° C 1.096 g/cm³
Solubility in / Miscibility with
Water: Not determined

SECTION 10 - STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.
Materials to be avoided: Oxidizing agents

Dangerous reactions No dangerous reactions known

Dangerous products of decomposition:

Carbon monoxide and carbon dioxide Sulfur oxides (SO_x) Hydrogen sulfide

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:
RTECS#:

LD50/LC50:

Oral: LD50: 178 mg/kg (rat)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity:

Subacute to chronic toxicity:

Thiols/mercaptans are skin, eye and respiratory irritants. Inhalation can cause central nervous system effects. Strong penetrating odor acts to minimize inhalation exposure.

Other:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

SECTION 12 - ECOLOGICAL INFORMATION

Do not allow material to be released to the environment without proper governmental permits.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal must be made according to official regulations.

SECTION 14 - TRANSPORT INFORMATION

DOT regulations:

Hazard class: 3

Identification number: UN1228

Packing group: III

Proper shipping name (technical name):

MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. TM

(Ethyl 2-mercaptoacetate)

Label 3+6.1

Land transport ADR/RID (cross-border)

ADR/RID class: 3 Flammable liquids

Danger code (Kemler): 36

UN-Number: 1228

Packaging group: III

Description of goods: 1228 MERCAPTANS, LIQUID, FLAMMABLE, TOXIC,
N.O.S. (Ethyl 2-mercaptoacetate)

Maritime transport IMDG:

IMDG Class: 3

UN Number: 1228

Label 3+6.1

Packaging group: III

Proper shipping name: MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S.
(Ethyl 2-mercaptoacetate)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3

UN/ID Number: 1228

Label 3+6.1

Packaging group: III

Proper shipping name: MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S.
(Ethyl 2-mercaptoacetate) TM

SECTION 15 - REGULATORY INFORMATION

Product related hazard informations:

Hazard symbols: T Toxic

Risk phrases: 10

Flammable. 25

Toxic if swallowed. 36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases: 7

Keep container tightly closed. 20

When using do not eat or drink. 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 33

Take precautionary measures against static discharges. 36/37

Wear suitable protective clothing and gloves. 43

In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. 45

In case of accident or if you feel unwell, seek medical advice immediately. 60

This material and its container must be disposed of as hazardous waste.

National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).

Information about limitation of use:

For use only by technically qualified individuals.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.