

**1. PRODUCT AND COMPANY IDENTIFICATION:**

**PRODUCT CODE** H0149  
**PRODUCT NAME** 2-MERCAPTO-3-BUTANOL  
**SUPPLIER** Shanghai M & U International Trade Co., Ltd.  
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200333 Shanghai, China  
+86-21-32515501 32515502  
sales@mu-intel.com

**FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)**

**2. HAZARD IDENTIFICATION:**

**Classification of the substance or mixture**



GHS02



GHS07

H226 Flammable liquids Flam. Liq. 3  
H315 Skin Irritation (Category 2)  
H319 Eye irritation (Category 2A)  
H335 Specific target organ toxicity – single exposure (category 3), Respiratory system

**Label elements**

Harmful in contact with skin or if inhaled.

**GHS label elements**

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible. The substance is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**



GHS02



GHS07

### Signal word

Warning

### Hazard statements

H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes eye irritation.  
H335 May cause respiratory irritation.

### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.  
P241 Use explosion proof electrical/ventilating/lighting/equipment.  
P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse with skin/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Hazards not otherwise classified (HNOC) or not covered by GHS

None.

### Classification system:

#### NFPA ratings (scale 0 - 4)

Health = 1  
Fire = 2  
Reactivity = 0

#### HMIS-ratings (scale 0 - 4)

Health = 1  
Fire = 2  
Reactivity = 0

### Other hazards

#### Results of PBT and vPvB assessment

##### PBT:

Not applicable.

##### vPvB:

Not applicable.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

**Chemical characterization: Substances**

**CAS No.:** 37887-04-0

**Description:** 2-Mercaprop-3-Butanol

**Identification number(s)**

**EC- No.:** N/A

**Hazardous components:**

Component	Classification	Concentration
NONE		

### 4. FIRST-AID GUIDE:

**Description of first aid measures**

**After inhalation:**

Supply fresh air, if required, provide artificial respiration. Keep patient warm, consult a doctor if symptoms persist.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Do NOT induce vomiting. Immediately call for medical help.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5. FIRE-FIGHTING GUIDE:

**Extinguishing media**

**Suitable extinguishing agents:**

CO2 or extinguishing powder. Fight larger fires with alcohol resistant foam.

**Special hazards arising from the substance or mixture**

No further relevant information available.

**Advice for firefighters****Protective equipment:**

No special measures required.

**Additional information**

Cool endangered receptacles with water spray.

Collect contaminated firefighting water separately. It must not enter the sewage system.

**6. ACCIDENTAL RELEASE GUIDE:****Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Environmental precautions:**

Prevent further spillage or leakage if safe to do so. Do not let product enter drains.

**Methods and material for containment and cleaning up:**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see Section 13).

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7. HANDLING AND STORAGE:****Handling:****Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion proof equipment. Keep away from sources of ignition – No smoking.

**Information about protection against explosions and fires:**

No special measures required.

**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Keep receptacle tightly sealed, in dry well-ventilated place.

Handle and store under inert gas.

**Information about storage in one common storage facility:**

Not required.

**Further information about storage conditions:**

Keep receptacle tightly sealed.

**Specific end use(s)**

No further relevant information available.

**8. EXPOSURE AND PERSONAL PROTECTION:**

**Additional information about design of technical systems:**

No further data; see item 7.

**Control parameters**

**Additional information:**

The lists that were valid during the creation were used as a basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves**

Fluorinated rubber, full contact and splash contact.

**Penetration time of glove material**

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Tightly sealed goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Information on basic physical and chemical properties

<b>General Information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Liquid
<b>Color:</b>	Colorless to pale yellow
<b>Odor:</b>	Onion
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range: (67 hPa/50 mmHg)</b>	58-60°C (136-140°F)
<b>Flash point:</b>	57°C (135°F)
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Not determined.
<b>Danger of explosion:</b>	Not determined.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined
<b>Vapor pressure:</b>	Not determined.
<b>Density at 20 °C (68 °F):</b>	1.012 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Not determined.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Organic solvents:</b>	0.0 %
<b>Other information</b>	No further relevant information available.

## 10. STABILITY AND REACTIVITY:

**Reactivity**

**Chemical stability****Thermal decomposition/conditions to be avoided:**

No decomposition if used according to specifications.

**Possibility of hazardous reactions**

No dangerous reactions known.

**Conditions to avoid**

No further relevant information available.

**Incompatible materials:**

No further relevant information available.

**Hazardous decomposition products:**

Hazardous decomposition products formed under fire conditions – carbon oxides, Sulphur oxides

**11. TOXICOLOGICAL INFORMATION:****Information on toxicological effects****Acute toxicity:****Primary irritant effect:****On the skin:**

Not data available.

**On the eye:**

No data available.

**Sensitization:**

No sensitizing effects known.

**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer)**

Substance is not listed.

**NTP (National Toxicology Program)**

Substance is not listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

**12. ECOLOGICAL INFORMATION:****Toxicity****Aquatic toxicity:**

No information available.

**Persistence and degradability**

No data available.

**Behavior in environmental systems:****Bioaccumulative potential**

No further relevant information available.

**Mobility in soil**

No further relevant information available.

**Additional ecological information:****General notes:****Results of PBT and vPvB assessment****PBT:**

Not applicable.

**vPvB:**

Not applicable.

**Other adverse effects****13. DISPOSAL RECOMMENDATIONS:****Waste treatment methods****Recommendation:**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Uncleaned packaging:**

Dispose of as unused product.

**Recommendation:**

Disposal must be made according to official regulations.

**14. TRANSPORTATION INFORMATION:**

<b>UN-Number</b> <b>DOT, ADR, IMDG, IATA</b>	UN1993
<b>UN proper shipping name</b> <b>DOT</b>	Flammable liquids, n.o.s. (2-Mercapto-3-Butanol)
<b>ADR</b>	1993 Flammable liquids, n.o.s. (2-Mercapto-3-Butanol)
<b>IMDG, IATA</b>	FLAMMABLE LIQUID, N.O.S (2-Mercapto-3-Butanol)
<b>Transport hazard class(es)</b>	3



<b>DOT, ADR, IMDG, IATA Class</b>	
<b>Packing group DOT, ADR, IMDG, IATA</b>	III
<b>Environmental hazards: Marine pollutant:</b>	No applicable.
<b>Special precautions for user</b>	<b>Warning: Flammable liquids.</b>
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information: DOT Quantity limitations</b>	On passenger aircraft/rail: 60 On cargo aircraft only: 220 L
<b>ADR Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>IMDG Limited quantities (LQ) Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>UN "Model Regulation":</b>	UN1993, Flammable liquids, n.o.s. (2-Mercapto-3Butanol), 3, III

## 15. REGULATORY INFORMATION:

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

**Sara**

**Section 355 (extremely hazardous substances):**

Substance is not listed.

**Section 313 (Specific toxic chemical listings):**

Substance is not listed.

**Section 311-312 Hazards:**

Fire hazard.

**TSCA (Toxic Substances Control Act):**

Substance is not listed.

**Proposition 65**

**Chemicals known to cause cancer:**

Substance is not listed.

**Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

**Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

**Chemicals known to cause developmental toxicity:**

Substance is not listed.

**Carcinogenic categories**

**EPA (Environmental Protection Agency)**

Substance is not listed.

**TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

**GHS label elements**

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## 16. OTHER INFORMATION:

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

**Prepared By:** M&U International LLC

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