



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE H0137
PRODUCT NAME ALLYL MERCAPTAN
SUPPLIER Shanghai M & U International Trade Co., Ltd.
Rm 1717, No 598 North NuJiang Road
200333 Shanghai, China
+86-21-32515501 32515502
sales@mu-intel.com

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

2. HAZARD IDENTIFICATION:

Emergency Overview

OSHA Hazards

Flammable liquid

Other hazards which do not result in classification

Stench

GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapor

Precautionary statement(s)

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. –No smoking

HMIS Classification

Health hazard 2

Flammability 3

Physical hazards 2

NFPA Rating

Health hazard 2

Fire 3

Reactivity Hazard 0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation
Skin	May be harmful if absorbed through skin. May cause skin irritation
Eyes	May cause eye irritation
Ingestion	May harmful if swallowed

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Synonyms	Prop-2-ene-1-thiol
Formula	C3 H6 S
Molecular Weight	74.14 g/mol
CAS-No	EC-No
870-23-5	212-792-7

4. FIRST-AID GUIDE:

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

In case of skin contact

Wash off with soap and plenty of water. Consult a physician

In case of eye contact

Flush eyes with water as a precaution

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

5. FIRE-FIGHTING GUIDE:

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid steams of water may be ineffective. Cool all affected container with flooding quantities of water

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for firefighting if necessary

Further information

Use water spray to cool unopened containers

6. ACCIDENTAL RELEASE GUIDE:

Personal precautions

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulation to form explosive concentrations. Vapors can accumulate in low areas

Environmental precautions

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

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to a local / national regulations (see section 13)

7. HANDLING AND STORAGE:

Precautions for safe handling

Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place; recommended storage temperature: -20 C Store under inert gas. Air sensitive, over time, pressure may increase causing containers to burst Handle and open container with care

8. EXPOSURE AND PERSONAL PROTECTION:

Contains no substances with occupational exposure limit values

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Hand protection

For prolonged or repeated contact use protective gloves

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

Form	liquid
Color	Colorless to yellow

Safety data

pH	no data available
Melting point	no data available
Boiling point	67 C
Flash point	64
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure (mm Hg @20 °C)	no data available
Density @25 °C	0.898
Water solubility	Insoluble
Odor	Garlic-Like

10. STABILITY AND REACTIVITY:

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

Vapors may form explosive mixture with air

Conditions to avoid

Heat, flames and sparks

Materials to avoid

Strong bases, Strong oxidizing agents, Alkali metals

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

11. TOXICOLOGICAL INFORMATION:

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC

No components of this product present at levels greater than or equal to 0.1% is identified as probable. Possible or confirmed human carcinogen by IARC

ACGIH

No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

NTP

No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

OSHA

No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation
Ingestion	May be harmful if swallowed
Skin	May be harmful if absorbed through skin May cause skin irritation
Eyes	May causes eye irritation

Signs and Symptoms of Exposure

Nausea, Headache, Vomiting, to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOLOGICAL INFORMATION:**Toxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL RECOMMENDATIONS:**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material

Contaminated packaging

Dispose of as unused product

14. TRANSPORTATION INFORMATION:**DOT (US)**

UN-Number: 3336 Class: 3 Packing group: II

Proper shipping name: Mercaptans, liquid, flammable, N.O.S.

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN-Number: 3336 Class: 3 Packing group: II EMS-No: F-E, S-D

Proper shipping name: MERCAPTANS, LIQUID, FLAMMABLE, N.O.S. (Prop-2-ene-1-thiol)

Marine pollutant: No

IATA

UN-Number: 3336 Class: 3 Packing group: II

Proper shipping name: Mercaptans, liquid, flammable, n.o.s. (Prop-2-ene-1-thiol)

IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION:

OSHA Hazards

Flammable liquid

DSL Status

All components of this product are on the Canadian DSL list

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

SARA 311/312 Hazards

Fire Hazard

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know Components

Prop-2-ene-1-thiol	CAS-No
	870-23-5

New Jersey Right to Know Components

Prop-2-ene-1-thiol	CAS-No
	870-23-5

California Prop 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

16. OTHER INFORMATION:

The information in this MSDS 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 MSDS. 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 MSDS. The user should review these regulations to ensure full compliance.

