

### MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE H0154

**PRODUCT NAME** METHYL-3-METHYLTHIO PROPIONATE

**SUPPLIER** Shanghai M & U International Trade Co., Ltd.

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

### 2. HAZARD IDENTIFICATION:

**Emergency Overview** 

**OSHA Hazards** 

Combustible Liquid

Other hazards which do not result in classification

Stench

**GHS** Classification

Flammable liquids (Category 4)

Acute aquatic toxicity (Category 2)

**GHS** Label elements, including precautionary statements



Pictogram Signal word

Warning

**Hazard statement(s)** 

H227 Combustible liquid H401 Toxic to aquatic life

**Precautionary statement(s)** 

None

**HMIS Classification** 

Health hazard 1 Flammability 2 Physical hazards 1

**NFPA Rating** 

Health hazard 1
Fire 2
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 be harmful if swallowed

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

**Synonym** Methyl 3-(methylmercapto) propionate

**Formula** C5 H10 O2 S **Molecular Weight** 134.19 g/mol

CAS-No EC-No Index-No Concentration

13532-18-8 236-883-6

### 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 streams of water may be ineffective. Cool all affected containers with flooding quantities of water

# **Special protective equipment for firefighters**

Wear self contained breathing apparatus for firefighting if necessary.

# **Hazardous combustion products**

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

## **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. Beware of vapors accumulating 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. Discharge into the environment must be avoided

# Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal

#### 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 under inert gas

### 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

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

### **Eve protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

# Skin and body protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

### **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 PALE YELLOW

Safety data

Melting point (°C) no data available

Boiling point (°C) 181 Flash point (°F) Closed Cup 158 Vapor pressure (mmHg@20°C) 2.0 Density @25 °C 1.070

Water solubility INSOLUBLE

Relative vapor density 4.6

Odor POWERFUL, ONION-LIKE

#### 10. STABILITY AND REACTIVITY:

### **Chemical stability**

Stable under recommended storage conditions

#### Conditions to avoid

Heat, flames and sparks.

## Materials to avoid

Strong oxidizing agents

# **Hazardous decomposition products**

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

#### 11. TOXICOLOGICAL INFORMATION:

# 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

### **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 cause eye irritation

# Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated

### 12. ECOLOGICAL INFORMATION:

### **Toxicity**

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia pulex (Water flea) - 3.16 mg/l - 48 h

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal Toxic to aquatic life

### 13. DISPOSAL RECOMMENDATIONS:

### **Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company

# **Contaminated packaging**

Dispose of as unused product

### 14. TRANSPORTATION INFORMATION:

# DOT (US)

UN number: 3334 Class: 9

Proper shipping name: Aviation regulated liquid, n.o.s. (Methyl 3-(methylthio)propionate)

Marine pollutant: No

Poison Inhalation Hazard: No

### **IMDG**

Not dangerous goods

#### **IATA**

UN number: 3334 Class: 9 Packing group: III

Proper shipping name: Aviation regulated liquid, n.o.s. (Methyl 3-(methylthio)propionate)

#### 15. REGULATORY INFORMATION:

## **OSHA Hazards**

Combustible Liquid

**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

No SARA hazards

### **Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act

# Pennsylvania Right to Know Components

Methyl 3-(methylthio) propionate CAS-No Revision Date

13532-18-8

# **New Jersey Right to Know Components**

Methyl 3-(methylthio) propionate CAS-No Revision Date

13532-18-8

## 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.

# **European/International Regulations**

European labeling in accordance with EC Directives

## **Hazards symbols**

Xi	Irritant
R-phrases	
36/37/38	Irritating to eyes, respiratory system and skin
23	Do not breathe vapour
24/25	Avoid contact with eyes and skin
26	In case of contact with eyes, rinse immediately with plenty of
	water and seek medical advice
36/37/39	Wear suitable clothing, gloves and eyes-face protection
EC-No	236-883-6

## 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.

