

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE

H0172

PRODUCT NAME

**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

**3-METHYLTHIO BUTYLALDEHYDE** 

## FOR EMERGENCIES CALL CHEMTREC:

800-424-9300 (24-HOURS)

## 2. HAZARD IDENTIFICATION:

<b>Emergency Overvie</b>	W			
OSHA Hazards				
Combustible Liquid				
GHS Classification				
Flammable liquids (Category 4)				
Skin irritation (Category 2)				
Eye irritation (Category 2A)				
Specific target organ toxicity - single exposure (Category 3)				
GHS Label elements, including precautionary statements				
Pictogram				
Signal word	Warning			
Hazard statement(s)				
H227	Combustible liquid			
H315	Causes skin irritation			
H319	Causes serious eye irritation			
H335	May cause respiratory irritation			
Precautionary statement(s)				
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.			
P305 P351 P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove			
	contact lenses, if present and easy to do. Continue rinsing.			
HMIS Classification				
Health hazard	1			
Flammability	2			
Physical hazards	1			
NFPA Rating				
Health hazard	0			
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:

Formula Molecular Weight	C5 H10 O S 118.20 g/mol		
CAS-No 16630-52-7	EC-No 240-678-7	Index-No.	Concentration

## 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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### 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 fire-fighters**

Wear self contained breathing apparatus for fire fighting 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**

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

## 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. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE:

### Precautions for safe handling

Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic

#### **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. Recommended storage temperature: 2 - 8 °C

## 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.

### **Eye 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
Safety data	
Melting point (°C)	no data available
Boiling point (°C)	190
Flash point (°F) Closed cup	144
Vapor pressure (mmHg@20	°C) no data available
Density @20 °C	1.002
Water solubility	INSOLUBLE
Relative vapor density	no data available
Odor	PUNGENT, SULFOUS

### **10. STABILITY AND REACTIVITY:**

Chemical stability
Stable under recommended storage conditions.
Conditions to avoid
Heat, flames and sparks.
Materials to avoid
Strong oxidizing agents, Strong bases
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

### **11. TOXICOLOGICAL INFORMATION:**

#### Carcinogenicity

IARC:

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

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

Inhalation-May cause respiratory irritation

### **Potential health effects**

InhalationMay be harmful if inhaled. May cause respiratory tract irritation.IngestionMay be harmful if swallowed.SkinMay be harmful if absorbed through skin May cause skin irritation.EyesMay cause eye irritation.

## Signs and Symptoms of Exposure

Nausea, Headache, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological been thoroughly investigated.

#### **Additional Information**

RTECS: Not available

## **12. 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.

## **13. TRANSPORTATION INFORMATION:**

### DOT (US)

UN number: 3334 Class: 9 Proper shipping name: Aviation regulated liquid, n.o.s. (3-(Methylthio)butyraldehyde) 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. (3-(Methylthio)butyraldehyde)

## **14. 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

Fire Hazard **Massachusetts Right To Know Components** No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components 3-(Methylthio)butyraldehyde CAS-NO **Revision** Date 16630-52-7 **New Jersey Right To Know Components** 3-(Methylthio)butyraldehyde CAS-NO **Revision** Date

## **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.

16630-52-7

## **15. 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.

Material Safety Data Sheet prepared by: M & U International LLC