



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT CODE** A0378  
**PRODUCT NAME** METHYL PROPYL DISULFIDE  
**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

Combustible Liquid, Irritant

#### GHS Classification

Flammable liquids (Category 3)

Acute toxicity, Oral (Category 5)

Eye irritation (Category 2A)

Acute aquatic toxicity (Category 3)

#### GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

#### Hazard statement(s)

H226 Flammable liquid and vapor.

H303 May be harmful if swallowed.

H319 Causes serious eye irritation.

H402 Harmful to aquatic life.

#### Precautionary statement(s)

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 2

Flammability 2

Physical hazards 2

#### NFPA Rating

Health hazard 2

Fire 2

Reactivity Hazard 0

### Potential Health Effects

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

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

<b>Synonym</b>	Methyl propyl disulphide
<b>Formula</b>	C4 H10 S2
<b>Molecular Weight</b>	122.25 g/mol

CAS-No	EC-No	Index-No.	Concentration
2179-60-4	218-551-2		

### 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. Take victim immediately to hospital. 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:

#### Conditions of flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for firefighters

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. 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 wet-brushing and place in container for disposal according to local regulations

## 7. HANDLING AND STORAGE:

### **Precautions for safe handling**

Avoid contact with skin and eyes. 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.

## 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**

Face shield and safety glasses 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, Flame retardant antistatic protective 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)	no data available
Flash point (°F) Closed cup	125
Vapor pressure (mmHg@20°C)	4.2
Density @25 °C	0.995
Water solubility	INSOLUBLE
Relative vapor density	no data available
Odor	PUNGENT, ONION, GALIC

**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.

**Potential health effects**

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

**Signs and Symptoms of Exposure**

Nausea, Headache, Vomiting

**Additional Information**

RTECS: Not available

**12. ECOLOGICAL INFORMATION:**

**Toxicity**

Toxicity to fish            LC50 - Pimephales promelas (fathead minnow) - 15.2 mg/l - 96 h

**Other adverse effects**

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

**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. Offer surplus and non-recyclable solutions to a licensed disposal company. 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: 1993    Class: 3            Packing group: III

Proper shipping name: Flammable liquids, n.o.s.

**IMDG**

UN number: 1993    Class: 3            Packing group: III

Proper shipping name: FLAMMABLE LIQUID, N.O.S.

**IATA**

UN number: 1993    Class: 3            Packing group: III

Proper shipping name: Flammable liquid, n.o.s.

**15. REGULATORY INFORMATION:**

**OSHA Hazards**

Combustible Liquid, Irritant

**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, Acute Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

Methyl propyl disphide      CAS-No.  
2179-60-4

**New Jersey Right To Know Components**

Methyl propyl disphide      CAS-No.  
2179-60-4

**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.