



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT CODE** A0299  
**PRODUCT NAME** 2-ACETYL THIOPHENE  
**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

Highly toxic by inhalation, Highly toxic by ingestion, Toxic by skin absorption

#### GHS Classification

Acute toxicity, Oral (Category 2)

Acute toxicity, Inhalation (Category 3)

Acute toxicity, Dermal (Category 3)

#### GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

#### Hazard statement(s)

H300 Fatal if swallowed

H311, H331 Toxic in contact with skin or if inhaled

#### Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/ protective clothing

P301, P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P311 Call a POISON CENTER or doctor/ physician

#### 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 fatal if inhaled. May cause respiratory tract irritation  
Skin Toxic if absorbed through skin. May cause skin irritation  
Eyes May cause eye irritation.  
Ingestion May be fatal if swallowed

**3. COMPOSITION AND INFORMATION ON INGREDIENTS:**

**Synonym** Methyl-2-thienyl ketone  
**Formula** C<sub>6</sub> H<sub>6</sub> O S  
**Molecular Weight** 126.18 g/mol

| CAS-No  | EC-No     | Index-No. | Concentration |
|---------|-----------|-----------|---------------|
| 88-15-3 | 201-804-6 |           |               |

**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. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING GUIDE:**

**Conditions of flammability**

Not flammable or combustible

**Suitable extinguishing media**

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

**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

**6. ACCIDENTAL RELEASE GUIDE:**

**Personal precautions**

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe 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**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**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**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES:****Appearance**

|                             |                          |
|-----------------------------|--------------------------|
| Form                        | LIQUID                   |
| Color                       | COLORLESS TO PALE YELLOW |
| <b>Safety data</b>          |                          |
| Melting point (°C)          | 10                       |
| Boiling point (°C)          | 214                      |
| Flash point (°F) Closed cup | 196                      |
| Vapor pressure (mmHg@20°C)  | no data available        |
| Density @25 °C              | 1.168                    |
| Water solubility            | INSOLUBLE                |
| Relative vapor density      | no data available        |
| Odor                        | CHARACTERISTIC           |

## 10. STABILITY AND REACTIVITY:

### Chemical stability

Stable under recommended storage conditions.

### Materials to avoid

Strong bases, Strong oxidizing agents, Strong reducing agents

### Hazardous decomposition products

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

## 11. TOXICOLOGICAL INFORMATION:

### Acute toxicity

#### Oral LD50

LD50 Oral- rat- 25- 200 mg/kg

### 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 fatal if inhaled. May cause respiratory tract irritation. |
| Ingestion  | May be fatal if swallowed.                                       |
| Skin       | Toxic if absorbed through skin. May cause skin irritation        |
| Eyes       | Causes eye irritation.   |

## **Additional Information**

RTECS: OB300000

## **12. DISPOSAL RECOMMENDATIONS:**

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### **Contaminated packaging**

Dispose of as unused product.

## **13. TRANSPORTATION INFORMATION:**

### **DOT (US)**

UN number: 2810    Class: 6.1    Packing group: II  
Proper shipping name: Toxic, liquids, organic, n.o.s. (Methyl 2-thienyl ketone)  
Reportable Quantity: (RQ)  
Marine pollutant: No  
Poison Inhalation Hazard: No

### **IMDG**

UN number: 2810    Class: 6.1    Packing group: II    EMS-No: F-A, S-A  
Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (Methyl 2-thienyl ketone)  
Marine pollutant: No

### **IATA**

UN number: 2810    Class: 6.1    Packing group: II  
Proper shipping name: Toxic liquid, organic, n.o.s. (Methyl 2-thienyl ketone)

## **14. REGULATORY INFORMATION:**

### **OSHA Hazards**

Highly toxic by inhalation, High toxic by ingestion, Toxic by skin absorption

### **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**

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 2-thienyl ketone

**New Jersey Right To Know Components**

Methyl 2-thienyl ketone

**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.

**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.