

## MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT CODE** A0172

**PRODUCT NAME** 2-ACETYL-2-THIAZOLINE

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

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sales@mu-intel.com

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

### 2. HAZARD IDENTIFICATION:

**Emergency Overview** 

**OSHA Hazards** -

Toxic by ingestion, Irritant.

Other hazards which do not result in classification

Stench.

**GHS Classification** 

Acute toxicity, Oral (Category 3) Eye irritation (Category 2A)

# **GHS** Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.

H319 Causes serious eye irritation.

Precautionary statement(s)

P301 P310 IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

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 1 Fire 2 Reactivity Hazard 0

#### **Potential Health Effects**

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.Skin May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation. **Ingestion** Toxic if swallowed.

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

Formula C5 H7 NOS Molecular Weight 129.18g/mol CAS-No 29926-41-8

#### 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

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 firefighting if necessary.

## **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx), Sulphur oxides.

### 6. ACCIDENTAL RELEASE GUIDE:

#### **Personal precautions**

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

## **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

Pick up and arrange disposal without creating dust. Sweep up and shove. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE:

## **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

## **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Stench.

## 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 type N99 (US) or type P2 (EN 143) 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**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance** 

Form LIQUID

Color DARK YELLOW TO DARK ORANGE

Safety data

Melting point (°C) 26 Boiling point (°C) 223

Flash point (°F) Closed cup 198

Density @25 °C 1.170

Water solubility INSOLUBLE

Odor CHARACTERISTIC

### 10. STABILITY AND REACTIVITY:

## **Chemical stability**

Stable under recommended storage conditions.

## Materials to avoid

Strong oxidizing agents.

# **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), 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. Causes respiratory tract irritation.

**Ingestion** Toxic if swallowed.

**Skin** May be harmful if absorbed through skin Causes skin irritation.

**Eyes** Causes eye irritation. **Signs and Symptoms of Exposure** 

To the best of our knowledge, the chemical, physical, and toxicological properties not been thoroughly investigated.

### 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 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: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solids, organic, n.o.s. (2-Acetyl-2-thiazoline)

Reportable Quantity (RQ): Marine pollutant: No

Poison Inhalation Hazard: No

#### **IMDG**

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-AProper shipping name:

TOXIC SOLID, ORGANIC, N.O.S. (2-Acetyl-2-thiazoline)

Marine pollutant: No

#### **IATA**

UN number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solid, organic, n.o.s. (2-Acetyl-2-thiazoline)

### 14. REGULATORY INFORMATION:

#### **OSHA Hazards**

Toxic by ingestion, 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 Ill, 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

2-Acetyl-2-thiazoline CAS-No. 29926-41-8

# **New Jersey Right To Know Components**

2-Acetyl-2-thiazoline CAS-No. 29926-41-8

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.

### 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