

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0375

**PRODUCT NAME**METHYL 2-FUROATE

**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, Toxic by ingestion, Harmful by skin absorption., Irritant

# Other hazards which do not result in classification

Lachrymator.

## **GHS** Classification

Flammable liquids (Category 4) Acute toxicity, Oral (Category 3) Acute toxicity, Dermal (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. H301 Toxic if swallowed.

H312 Harmful in contact with skin.
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.
P280 Wear protective gloves/ protective clothing.

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

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 1

**NFPA Rating** 

Health hazard 2
Fire 2
Reactivity Hazard 0
Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Skin Causes skin irritation.
Eyes Causes eye irritation.
Ingestion Toxic if swallowed.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

**Synonym** Methyl furan-2-xcarboxylate

Methyl pyromucate

**Formula** C6 H6 O3 **Molecular Weight** 126.11 g/mol

CAS-No EC-No Index-No. Concentration

611-13-2 210-254-6

#### 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

Rinse thoroughly with plenty of water al 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 oxide. 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 fire fighting if necessary.

# **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

### **Further information**

Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE GUIDE:

### **Personal precautions**

Wear respiratory protection. 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**

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

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 AMBER TO BROWN

Safety data

Melting point (°C) no data available

Boiling point (°C) 181 Flash point (°F) Closed cup 164

Vapor pressure (mmHg@20°C) no data available

Density @25 °C 1.174

Water solubility INSOLUBLE
Relative vapor density no data available
Odor PLEASANT

### 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, Strong reducing agents.

# **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

### 11. TOXICOLOGICAL INFORMATION:

Acute toxicity

Oral LD50

LD50 Oral-rat-300 mg/kg

**Dermal LD50** 

LD50 Dermal-rabbit-> 1,250 mg/kg

### Skin corrosion/irritation

Skin-rabbit-Skin irritation- 24 h

### 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**

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion Toxic if swallowed.
Skin Causes skin irritation.
Eyes Causes eye irritation.

### Signs and Symptoms of Exposure

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information** RTECS: LV1950000

#### 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. Contact a licensed professional waste disposal service to dispose of this material.

### **Contaminated packaging**

Dispose of as unused product.

#### 13. TRANSPORTATION INFORMATION:

#### DOT (US)

UN number: 2810 Class: 6.1 Packing group: III Proper shipping name: Toxic, liquids, organic, n.o.s.

**IMDG** 

UN number:2810 Class: 6.1 Packing group: III EMS-No:F-A, S-A

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.

**IATA** 

UN number: 2810 Class: 6.1 Packing group: III

Proper shipping name: Toxic liquid, organic, n.o.s.

#### 14. REGULATORY INFORMATION:

#### **OSHA Hazards**

Combustible Liquid, Toxic by ingestion, Harmful by skin absorption, 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 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-furoate CAS-No. Revision Date

611-13-2

### **New Jersey Right To Know Components**

Methyl 2-furoate CAS-No. Revision Date

611-13-2

### 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.