

### MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0204

**PRODUCT NAME**METHYL HEPTINE CARBONATE

**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, Harmful by ingestion, Irritant

### **GHS** Classification

Flammable liquids (Category 4)

Acute toxicity, Oral (Category 4)

Acute toxicity, Dermal (Category 5)

Skin irritation (Category 2)

# GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H227 Combustible liquid H302 Harmful if swallowed

H313 May be harmful in contact with skin

H315 Causes skin irritation

Precautionary statement(s) none

**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. May cause respiratory tract irritation

**Skin** Harmful if absorbed through skin. May cause skin irritation

**Eyes** Causes eye irritation **Ingestion** Harmful if swallowed

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

SYNONYM Methyl oct-2-ynoate

Formula C9 H14 O2
Molecular Weight 154.21 g/mol
CAS-No EC-No
111-12-6 203-836-6

### 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. Consult a physician

### In case of eye contact

Flush eyes with water as a precaution

### 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 firefighting 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**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours 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 (see section 13). Keep in suitable, closed containers for disposal

#### 7. HANDLING AND STORAGE:

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour 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 type N100 (US) or type P3 (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 at the end of workday

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance** 

Form LIQUID

Colour COLORLESS TO PALE YELLOW

Safety data

pH no data available Melting point (°C) no data available

Boiling point (°C) 217

Flash point (°F)

Ignition temperature

Auto ignition temperature

Lower explosion limit

Upper explosion limit

Vapour pressure (mm Hg @20 °C)

Closed Cup 190

no data available

no data available

no data available

Density @25 °C 0.921

Water solubility INSOLUBLE

Partition coefficient:

n-octanol/ water no data available Relative vapour density no data available

Odor GREEN, VIOLET, VEGETABLE

Odour Threshold no data available Evaporation rate no data available

### 10. STABILITY AND REACTIVITY:

**Chemical stability** 

Stable under recommended storage conditions

Possibility of hazardous reactions

No data available

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

### 11. TOXICOLOGICAL INFORMATION:

**Acute toxicity** 

**Oral LD50 -** rat - 1,530 mg/kg

Inhalation LC50 - no data available

**Dermal LD50** - rabbit - 3,300 mg/kg

Other information on acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

# Carcinogenicity

#### **IARC**

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

# Reproductive toxicity

No data available

## **Teratogenicity**

No data available

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

No data available

# Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

# **Aspiration hazard**

no data available

#### **Potential health effects**

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

Ingestion Harmful if swallowed

Skin Harmful if absorbed through skin May cause skin irritation

Eyes Causes eye irritation

### Signs and Symptoms of Exposure

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

### **Additional Information**

RTECS: RI2735000

#### 12. ECOLOGICAL INFORMATION:

#### **Toxicity**

No data available

### Persistence and degradability

No data available

### **Bioaccumulative potential**

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

#### 13. 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

### 14. TRANSPORTATION INFORMATION:

DOT (US)

Not dangerous goods

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

#### 15. REGULATORY INFORMATION:

#### **OSHA Hazards**

Combustible Liquid, Harmful 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

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

No components are subject to the Pennsylvania Right to Know Act

### **New Jersey Right to Know Components**

No components are subject to the New Jersey Right to Know Act

### 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.

