

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE

A0402

**PRODUCT NAME** 

**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

METHYL HEXYL KETONE

## FOR EMERGENCIES CALL CHEMTREC:

800-424-9300 (24-HOURS)

## 2. HAZARD IDENTIFICATION:

Emergency Overview OSHA Hazards	W			
-	Harmful by skin absorption.			
GHS Classification				
Flammable liquids (Category 3)				
Acute toxicity, Oral (Category 5)				
Acute toxicity, Dermal (Category 4)				
Skin irritation (Catego	•			
Acute aquatic toxicity (Category 3)				
GHS Label elements	s, including precautionary statements			
Pictogram				
Signal word	Warning			
Hazard statement(s)				
H226	Flammable to liquid and vapor.			
H303	May be harmful if swallowed.			
H312	Harmful in contact with skin.			
H316	Causes mild skin irritation.			
H402	Harmful to aquatic life.			
Precautionary statement(s)				
P280	Wear protective gloves/ protective clothing.			
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	May cause skin irritation.			
Eyes	May cause eye irritation.			
Ingestion	May be harmful if swallowed.			

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Synonym Formula Molecular Weight	Hexyl methyl ketone Octan-2-one C8 H16 O 128.21 g/mol		
CAS-No 111-13-7	EC-No 203-837-1	Index-No.	Concentration

#### 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 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**

Use personal protective equipment. 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

## 7. HANDLING AND STORAGE:

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. 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** 

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)	-16	
Boiling point (°C)	173	
Flash point (°F) Closed cup	133	
Vapor pressure (mmHg@20	°C) 0.75	
Density @25 °C	0.819	
Water solubility	SLIGHT	
Relative vapor density	4.5	
Odor	PUNGENT	

#### **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 reducing agents, Strong bases Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides

## **11. TOXICOLOGICAL INFORMATION:**

Acute toxicity LD50 Oral - rat - 3,089 mg/kg LD50 Dermal - rabbit - 1,337 mg/kg Skin corrosion/irritation Skin - rabbit - Mild skin irritation - 24 h **Reproductive toxicity** Reproductive toxicity - mouse - Intraperitoneal Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated). **Carcinogenicity** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

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**

InhalationMay be harmful if inhaled. May cause respiratory tract irritation.IngestionMay be harmful if swallowed.SkinMay cause skin irritation.EyesMay cause 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: RH1484000

RTECS: RH1484000

## **12. ECOLOGICAL INFORMATION:**

#### Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 36 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 cae in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

## **Contaminated packaging**

Dispose of as unused product.

## **14. TRANSPORTATION INFORMATION:**

## DOT (US)

UN number: 1224 Class: 3 Packing group: III Proper shipping name: Ketones, liquid, n.o.s. **IMDG** UN number: 1224 Class: 3 Packing group: III Proper shipping name: Ketones, liquid, n.o.s. IATA

UN number: 1224 Class: 3 Packing group: III Proper shipping name: Ketones, liquid, n.o.s.

## **15. REGULATORY INFORMATION:**

#### **OSHA Hazards**

Combustible Liquid, Harmful 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

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

Octan-2-one	CAS-No.	Revision Date
	111-13-7	

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

Octan-2-one CAS-No. Revision Date 111-13-7

## 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.