



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT CODE** A0260  
**PRODUCT NAME** OCTYL ALCOHOL  
**SUPPLIER** Shanghai M & U International Trade Co., Ltd.  
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200333 Shanghai, China  
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sales@mu-intel.com

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

### 2. HAZARD IDENTIFICATION:

#### Emergency Overview

#### OSHA Hazards

Combustible Liquid, Target Organ Effect, Irritant

#### Target Organs

Nerves, Liver, Kidney

#### GHS Classification

Flammable liquids (Category 4)  
Acute toxicity, Oral (Category 5)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Acute aquatic toxicity (Category 3)

#### GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H227	Combustible liquid
H303	May be harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H402	Harmful to aquatic life

Precautionary statement(s)

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** 1

**Flammability** 2

**Physical hazards** 0

**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** May be harmful if swallowed

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

SYNONYM	1-Octanol
Formula	C8 H18 O
Molecular Weight	130.23 g/mol
CAS-No	EC-No
111-87-5	203-917-6

**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**

Rinse thoroughly with plenty of water for at 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 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 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. Discharge into the environment must be avoided

### **Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing 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 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

## 8. EXPOSURE AND PERSONAL PROTECTION:

Contains no substances with occupational exposure limit values

### **Components**

Octan-1-ol

### **Value**

TWA

### **Control parameters**

50 ppm

### **CAS-No**

111-87-5

### **Basis**

USA. Workplace Environmental Exposure Levels (WEEL)

### **Personal protective equipment**

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

#### **Skin and body protection**

Impervious clothing, 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  
Color

LIQUID  
COLORLESS TO PALE YELLOW

### Safety data

pH	no data available
Melting point (°C)	no data available
Boiling point (°C)	195
Flash point (°F)	Closed Cup 190
Ignition temperature	273 C (523 F)
Auto ignition temperature	no data available
Lower explosion limit	1.0%
Upper explosion limit	8.0%
Vapor pressure (mm Hg @20 °C)	<1.0
Density @25 °C	no data available
Water solubility	INSOLUBLE
Partition coefficient: n-octanol/ water	log Pow: 2.80 - 3.15
Relative vapor density	1.48
Odor	FATTY, ALCOHOL
Odor 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

Acids, Acid chlorides, Oxidizing agents acids, Acid chlorides, Oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION:

**Acute toxicity****Oral LD50**

LD50 Oral - rat - > 3,200 mg/kg

**Inhalation LC50**

No data available

**Dermal LD50**

No data available

**Other information on acute toxicity**

No data available

**Skin corrosion/irritation**

Skin - rabbit - Skin irritation

**Serious eye damage/eye irritation**

Eyes - rabbit - Moderate eye irritation

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

Genotoxicity in vitro - Hamster - Lungs  
SLN

**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. Causes respiratory tract irritation

Ingestion May be harmful if swallowed

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

Eyes Causes eye irritation

**Signs and Symptoms of Exposure**

Central nervous system depression, Nausea, Headache, Vomiting, narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

**Synergistic effects**

No data available

**Additional Information**

RTECS: RH6550000

**12. ECOLOGICAL INFORMATION:****Toxicity**

Toxicity to fish

mortality LOEC - Pimephales promelas (fathead minnow) - 1.19 mg/l - 7 d

mortality NOEC - Pimephales promelas (fathead minnow) - 1.19 mg/l - 7 d

LC50 - Oncorhynchus mykiss (rainbow trout) - 17.7 mg/l - 96 h

Toxicity to algae

EC50 - Desmodesmus subspicatus (green algae) - 6.5 - 14.0 mg/l - 48 h

**Persistence and degradability**

No data available

**Bioaccumulative potential**

Does not bioaccumulate

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Harmful to aquatic life

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, Target Organ Effect, 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 Hazard, Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act

**Pennsylvania Right to Know Components**

Octan-1-ol	CAS-No
	111-87-5

**New Jersey Right to Know Components**

Octan-1-ol	CAS-No
	111-87-5

**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.