



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

<b>PRODUCT CODE</b>	A0257
<b>PRODUCT NAME</b>	4-ETHYL OCTANOIC ACID
<b>SUPPLIER</b>	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

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

### 2. HAZARD IDENTIFICATION:

#### Emergency Overview

#### OSHA Hazards

No known OSHA hazards

#### GHS Classification

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)

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
P264	Wash skin thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/ eye protection/ face protection
P302 P352	IF ON SKIN: Wash with plenty of soap and water

P304 340 IF INHALED: Remove victim to fresh air and keep rest in a position comfortable for breathing

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P312 Call a poison center or doctor/ physician of you feel unwell

P321 specific treatment (see supplemental first aid instructions on this label)

P332 P313 if skin irritation occurs: Get medical advice/ attention

P337 P313 if eye irritation persists: Get medical advice/attention

P362 Take off contaminated clothing and wash before reuse

P403 P233 Store in a well-ventilated place. Keep container tightly closed

P405 Store locked up

P501 Dispose of contents/ container to an approved waste disposal plant

**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 be harmful if absorbed through skin. May cause skin irritation  
**Eyes** May cause eye irritation  
**Ingestion** May be harmful if swallowed

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

Formula	C10 H20 O2
Molecular Weight	172.26 g/mol
CAS-No	EC-No
16493-80-4	240-560-5

**4. FIRST-AID GUIDE:**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance

**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**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

**5. FIRE-FIGHTING GUIDE:****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

**6. ACCIDENTAL RELEASE GUIDE:****Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas

**Environmental precautions**

Do not let product enter drains

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

Soak up with inert absorbent material and dispose of as hazardous waste. 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. Normal measures for preventive fire protection

**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

Safety glasses with side-shields conforming to EN 166 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	liquid
Color	colorless to pale yellow

### Safety data

pH	no data available
Melting point	no data available
Boiling point	163 C
Flash point	>200 °F
Ignition temperature	no data available
Auto ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure (mm Hg @20 °C)	no data available
Density @25 °C	0.904

Water solubility  
Partition coefficient:  
n-octanol/ water  
Relative vapor density  
Odor

Soluble in alcohol insoluble in water  
  
no data available  
no data available  
characteristic

## 10. STABILITY AND REACTIVITY:

### **Chemical stability**

Stable under recommended storage conditions

### **Possibility of hazardous reactions**

No data available

### **Conditions to avoid**

No data available

### **Materials to avoid**

Strong 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**

No data available

#### **Inhalation LC50**

No data available

#### **Dermal LD50**

No data available

### **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)**

Inhalation- May cause respiratory irritation

**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	May be harmful if swallowed
Skin	May be harmful if absorbed through skin May cause skin irritation
Eyes	May cause eye irritation

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have been thoroughly investigated

**Synergistic effects**

No data available

**Additional Information**

RTECS: Not available

**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**

Offer surplus and non-recyclable solutions to a licensed disposal company

**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

No known OSHA hazards

### 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

No SARA hazards

### Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act

### Pennsylvania Right to Know Components

4-Ethyl octanoic acid	CAS-No
	16493-80-4

### New Jersey Right to Know Components

4-Ethyl octanoic acid	CAS-No
	16493-80-4

### 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.