

**Material Safety Data Sheet****OCTYL ALCOHOL****Section 1 - Product Identification**

Product Name : Octyl Alcohol

Company Identification : Tradeasia International Pte. Limited

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**Section 2 – Composition / Information on ingredients**

<b>Synonym</b>	1-Octanol
<b>Formula</b>	C8 H18 O
<b>Molecular Weight</b>	130.23 g/mol
<b>CAS Number</b>	111-87-5
<b>EC Number</b>	203-917-6

**Section 3 – 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**

<b>Health hazard</b>	1
<b>Flammability</b>	2
<b>Physical hazards</b>	0

**NFPA Rating**

<b>Health hazard</b>	1
<b>Fire</b>	2
<b>Reactivity Hazard</b>	0

**Potential Health Effects**

<b>Inhalation</b>	: Maybe harmful if inhaled. Causes respiratory tract irritation
<b>Skin</b>	: May be harmful if absorbed through skin. Causes skin irritation
<b>Eyes</b>	: Causes eye irritation
<b>Ingestion</b>	: May be harmful if swallowed

**Section 4 – First-Aid Measures**

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
Skin	Wash off with soap and plenty of water. Consult a physician
Eye	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
If Swallow	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

**Section 5 – Fire Fighting Measures****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

**Section 6 – Accidental Release Measures****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

### **Section 7 – Handling & 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.

### **Section 8 – Exposure Controls/Personal Protection (later)**

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

**Section 9 – Physical and Chemical Properties****Appearance**

Form : LIQUID  
Color : 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

**Section 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

## Section 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

### Section 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

## Section 13 – Disposal Considerations

### 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

## Section 14 – Transport Information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

## Section 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

#### Section 16 : Additional 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 Tradeasia International 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.