



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Product name:** 1-Octanol  
**Product code:** O0036  
**Company:** TCI (Shanghai) DEVELOPMENT CO., LTD.  
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**Revision number:** 1

## 2. HAZARDS IDENTIFICATION

### Classification of the GHS

#### PHYSICAL HAZARDS

Flammable liquids Category 4

#### HEALTH HAZARDS

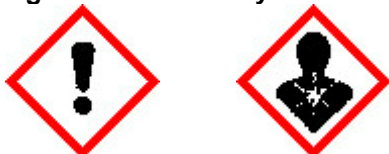
Skin corrosion/irritation Category 3  
 Serious eye damage/eye irritation Category 2A  
 Germ cell mutagenicity Category 2  
 Specific target organ toxicity  
 - Single exposure [Category 3] Respiratory tract irritation  
 Aspiration hazard Category 2

#### ENVIRONMENTAL HAZARDS

Acute aquatic toxicity Category 2

### GHS label elements

#### Pictograms or hazard symbols



#### Signal word

#### Hazard statement

Danger  
 Combustible liquid  
 Causes mild skin irritation  
 Causes serious eye irritation  
 Suspected of causing genetic defects  
 May cause respiratory irritation  
 May be harmful if swallowed and enters airways  
 Toxic to aquatic life

#### Precautionary statements

##### [Prevention]

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from flames and hot surfaces.  
 Avoid breathing.  
 Use only outdoors or in a well-ventilated area.  
 Avoid release to the environment.  
 Wear protective gloves and eye/face protection.

**2. HAZARDS IDENTIFICATION****[Response]**

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

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

If eye irritation persists: Get medical advice/attention.

Wash hands thoroughly after handling.

If skin irritation occurs: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

**[Storage]**

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

Store locked up.

**[Disposal]**

Dispose of contents/container through a waste management company authorized by the local government

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Substance/mixture:</b>	Substance
<b>Component(s):</b>	1-Octanol
<b>Percent:</b>	>98.0%(GC)
<b>CAS Number:</b>	111-87-5
<b>Synonyms:</b>	n-Octyl Alcohol
<b>Chemical Formula:</b>	C <sub>8</sub> H <sub>18</sub> O

**4. FIRST AID MEASURES****Inhalation:**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

**Skin contact:**

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.

**Eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.

**Ingestion:**

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

**Symptoms/effects:**

cough, sore throat , burning sensation, dry skin , redness, pain

**Protection of first-aiders:**

A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media:**

Dry chemical, foam, carbon dioxide.

**Extinguishing media not to be used:**

Water (It may scatter and spread fire.)

**Specific methods:**

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

**Special protective equipment for firefighters:**

When extinguishing fire, be sure to wear personal protective equipment.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures:**

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

**Environmental precautions:**

Prevent product from entering drains.

## 6. ACCIDENTAL RELEASE MEASURES

- Methods and materials for containment and cleaning up:** Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- Prevention of secondary hazards:** Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

## 7. HANDLING AND STORAGE

### Handling

- Technical measures:** Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapor or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.
- Advice on safe handling:** Use a closed system, ventilation. Avoid all contact!

### Storage

- Storage conditions:** Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.
- Packaging material:** Law is followed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering controls:** Install a closed system or local exhaust. Also install safety shower and eye bath.
- Personal protective equipment**
- Respiratory protection:** Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
- Hand protection:** Impervious gloves.
- Eye protection:** Safety goggles. A face-shield, if the situation requires.
- Skin and body protection:** Impervious protective clothing. Protective boots, if the situation requires.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state (20°C):** Liquid
- Form:** clear
- Color:** Colorless - Almost colorless
- Odor:** Aromatic
- pH:** No data available
- Melting point/freezing point:** -16 °C
- Boiling Point/Range:** 194 °C
- Flash Point:** 83°C
- Explosive limits**
- Lower:** 0.2%
- Upper:** 30%
- Vapor Pressure:** 20Pa/8.7°C
- Vapor Density:** 4.5
- Density:** 0.83
- Solubility:** Miscible with : Alcohol Ether Chloroform  
Insoluble in: Water (0.30mg/L 20°C)
- log Pow =** 3.0
- Autoignition Temperature:** 253°C

## 10. STABILITY AND REACTIVITY

- Stability:** Stable under proper conditions.
- Reactivity:** No special reactivity has been reported.
- Incompatible materials:** oxidizing agents, strong acids

## 10. STABILITY AND REACTIVITY

**Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** ihl-rat LCLo:5600 mg/m<sup>3</sup>/4H  
orl-hmn LDLo:428.6 mg/kg  
orl-mus LD50:1790 mg/kg  
orl-rat LD50:20000 mg/kg  
skn-gpg LD50:>1 g/kg

**Skin corrosion/irritation:** skn-rbt 500 mg/24H MLD

**Serious eye damage/irritation:** No data available

**Germ cell mutagenicity:** sln-ham-Ing 800 umol/L

**Carcinogenicity:**

**IARC =** No data available

**NTP =** No data available

**Reproductive toxicity:** No data available

**RTECS Number:** RH6550000

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

**Fish:** No data available

**Crustacea:** No data available

**Algae:** No data available

**Persistence / degradability:** 89% (by BOD), 99% (by TOC), 100% (by GC)

**Bioaccumulative potential(BCF):** No data available

**Mobility in soil**

**log Pow:** 3.0

**Soil adsorption (Koc):** 137 - 983

**Henry's Law constant(PaM<sup>3</sup>/mol):** 2.55

## 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

## 14. TRANSPORT INFORMATION

**Hazards Class:** Does not correspond to the classification standard of the United Nations

**UN-No:** Not Listed

## 15. REGULATORY INFORMATION

**Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002):** Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

## 16. OTHER INFORMATION

**The reference company name of written contents**

**Company:** TCI (Shanghai) DEVELOPMENT CO., LTD.  
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## 16. OTHER INFORMATION

This MSDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. Products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.