



Protection of first aider :

No information available.

Notes for the physician :

No information available.

## 5. Fire Fighting Measures

Suitable extinguishing media :

This product is not flammable. Use fire extinguishing media appropriate for surrounding materials. Dry chemicals and/or foam are suitable.

Special hazards arising from the product :

No information available.

Special fire-fighting methods :

Fire-fighting in the wind. Remove from fire and move to empty place. Cool containers with water spray. Provide adequate ventilation. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Protection for fire-fighters :

Fire-fighters should wear appropriate breathing apparatus and protective equipment.

## 6. Accidental Release Measures

Personal precautions :

Wear personal protective equipment (See section 8).

Environmental precautions :

It is biodegradable. And it is thought that fish toxicity is low.

Methods cleaning up :

Flush area with water. Or Absorb in combustible material and incinerate.

## 7. Handling and Storage

Handling :

Avoid spilling, skin and eye contact. Wear appropriate clothing to prevent any possibility of skin contact.

Storage :

Store in tightly closed original container. Protect from light, including direct sunrays. Store below room temperature.

## 8. Exposure Controls/Personal Protection

Engineering control :

Provide local exhaust or process enclosure ventilation system.

Personal protective equipment :

- Respiratory protection : In case of inadequate ventilation wear respiratory protection.
- Hand protection : Wear protective gloves.
- Eye protection : Wear approved safety goggles.
- Skin and body protection : Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures :

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

## 9. Physical and Chemical Properties

- Appearance : Transparent liquid.
- Color : Colorless or slightly yellow
- Odor : Odorless or slightly characteristic odor
- pH : 4.5~6.0
- Flash Point : Not available
- Flammability : Not flammable
- Specific Gravity : 1.1~1.2 ( $d_{20}^{20}$ )
- Solubility : Miscible with water and ethanol.

## 10. Stability and Reactivity

- Stability : Stable under normal conditions of handling, storage use.
- Reactivity : Not available.
- Hazardous decomposition products : Carbon monoxide, Nitrogen oxides

## 11. Toxicological Information

- Acute Toxicity : No data available.
- Local Effect : No data
- Mutagenicity : Ames test : Negative
- Skin corrosion : No data

## 12. Ecological Information

- Persistence/degradability : Good.

## 13. Disposal Consideration

- Waste Disposal methods : Incinerate in suitable combustion chamber. Dispose of

waste and residues in accordance with local authority requirements.

#### 14. Transport Information

UN Number : Not regulated  
 UN Proper shipping name : Not regulated  
 UN Classification : Not regulated  
 Packing Group : Not regulated  
 Mark/Label(s) : Not regulated  
 Marine pollutant (Yes/No) : No  
 Additional information :

The materials transportation by vehicles, the sender serves deliverers with instructions for safe handling. In transportation confirm leakless of the container, and load the materials not to upset, fall and damage. Secure preventing the load from falling.

#### 15. Regulatory Information

Applicable regulations :  
 Not Data

#### 16. Other Information

References :

- 1) "The Handbook of Prevention for Dangerous Substances Accident and Emergencies"  
 KOBKAINAN BOSHIKENKYUKAI published by SEIZANDO (Japanese)
- 2) "The Merck Index 12<sup>th</sup> ED." (1996)  
 KYORITSU SHUPPAN (Japanese)
- 3) Unpublished data (for Company use: Japanese)

Disclaimer :

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.