

## Material Safety Data Sheet

### 1 - Product and Company Information

Company Name SPE CHEMICALS  
CO.,LTD Emergency telephone+862151386314  
Contact Technical Officer

### 2 - Composition/Information on Ingredients

Product Name CAS #  
OIT 99% 26530-20-1

### Formula

Formula C11H19N  
OS Molecular Weight 213.37  
Synonyms 2-Octyl-4-isothiazolin-3-one \*  
2-Octyl-3(2H)-isothiazolone

### 3 - Hazards Identification

#### SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Harmful if swallowed. Toxic by inhalation and in contact with skin. Causes burns. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4 - First Aid Measures

#### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician. AFTER

#### EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. ~~Assure~~ adequate flushing by separating the eyelids with fingers. Call a physician.

#### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Do not induce vomiting.

### 5 - Fire Fighting Measures

#### EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

#### SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.  
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS  
Wear self-contained breathing apparatus and protective clothing

to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area.  
PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.  
STORAGE

Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.  
GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Discard contaminated

shoes. Wash thoroughly after handling. PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). 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.  
Hand Protection: Compatible chemical-resistant gloves.

9 - Physical and Chemical Properties

Appearance

Physical State: Liquid

Property	Value	At Temperature or
Pressure pH	N/A	
BP/BP	Range	
N/A	MP/MP	Range
N/A	Flash	Point
N/A	Flammability	N/A
Autoignition Temp		
	N/A	
Oxidizing Properties	N/A	

Explosive Properties N/A  
Explosion Limits N/A  
Vapor Pressure  
N/A SG/Density  
N/A Partition Coefficient  
N/A Viscosity  
N/A Vapor Density  
N/A Saturated Vapor Conc.

N/A  
Evaporation Rate  
N/A

Bulk Density  
N/A Decomposition Temp.  
N/A Solvent Content  
N/A Water Content  
N/A Surface Tension  
N/A Conductivity  
N/A Miscellaneous Data  
N/A Solubility

N/A

## 10 - Stability and Reactivity

### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide,  
Nitrogen oxides, Sulfur oxides.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## 11 - Toxicological Information

RTECS NUMBER: NX8156900

### ACUTE

#### TOXICITY

LD50

Oral

Rat

550 mg/kg

LD50

Skin

Rabbit

690 mg/kg

### IRRITATION

DATA Skin

Rabbit

500 mg

24H

Eyes

Rabb

it

100 mg

Remarks: Severe irritation effect

### SENSITIZATION

Skin: May cause allergic skin reaction.

### SIGNS AND SYMPTOMS OF EXPOSURE

Material is extremely destructive to tissue of the mucous  
membranes and upper respiratory tract, eyes, and skin.

Inhalation may result in spasm, inflammation and edema of the  
larynx and bronchi, chemical pneumonitis, and pulmonary edema.

Symptoms of exposure may include burning sensation, coughing,  
wheezing, laryngitis, shortness of breath, headache, nausea, and

vomiting.

ROUTE OF EXPOSURE

Skin Contact: Causes burns.

Skin Absorption: Toxic if absorbed through skin.

Eye Contact: Causes burns.

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Toxic if inhaled.

Ingestion: Harmful if swallowed

12 - Ecological Information

N/A

ECOTOXICOLOGICAL

EFFECTS Test Type:

LC50 Fish

Species: *Cyprinodon variegatus* (Sheepshead minnow)

Time: 96 h

Value: 0.16 mg/l

Test Type: EC50

Daphnia Species:

Daphnia magna Time:

48 h

Value: 0.18 mg/l

Test Type: LC50 Fish

Species: *Pimephales promelas* (Fathead minnow)

Time: 96 h

Value: 0.14 mg/l

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

UN#: 2922

Class: 8

PG: II Subrisk:

6.1

Proper Shipping Name: Corrosive liquid, toxic, n.o.s.

IMDG

UN#: 2922

Class: 8

PG: II Subrisk:

6.1

Proper Shipping Name: CORROSIVE LIQUID, TOXIC, N.O.S.

Marine Pollutant: No

Severe Marine

Pollutant: No

Technical Name:

Required IATA

UN#: 2922

Class: 8

PG: II Subrisk:

6.1

Proper Shipping Name: Corrosive liquid, toxic, n.o.s. Inhalation Packing Group I: No

Technical Name: Required

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU

DIRECTIVES ANNEX I INDEX NUMBER: 613-112-00-5

INDICATION OF DANGER: T-N

Toxic. Dangerous for the environment. R-PHRASES: 22-23/24-34-43-50/53

Harmful if swallowed. Toxic by inhalation and in contact with skin. Causes burns. May cause sensitization by skin contact.

Very toxic

to aquatic organisms, may cause long-term adverse effects in the aquatic

environment. S-PHRASES:

36/37/39-45-60-61-26

Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16 - Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.