

Material Safety Data Sheet

OIT-10

1. Identification of the substance/mixture and of the company/undertaking

Product Name: OIT-10
Application: Industrial Microbicide
Uses advised against: No further relevant information available.
Supplier details:
Company name: SINOTRUST CHEMICAL CO. LTD
Add: NO.813 SELF TRADE BUILDING F.T.Z. DALIAN CHINA
TEL: 0086-139 9868 3145 Email: sales@sinotrustedchemical.com
Emergencies phone: 0086-139 9868 3145

2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [GHS/CLP]

Acute toxicity, Oral (Category 4)

Acute toxicity, Inhalation (Category 3)

Acute toxicity, Dermal (Category 3)

Skin corrosion (Category 1B)

Skin sensitization (Category 1)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

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

Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



Signal word

Danger

Hazard statements

H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.
 H317: May cause an allergic skin reaction.
 H331: Toxic if inhaled.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P261: Avoid breathing dust.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P305 IF IN EYES: Rinse cautiously with water for several minutes.
 + P351: Remove contact lenses, if present and easy to do. Continue
 + P338: rinsing.
 P310: Immediately call a POISON CENTER or doctor/ physician.
 P501: Dispose of contents /container to an approved waste disposal plant.

Supplemental Hazard Statements: None

According to European Directive 67/548/EEC as amended.

Hazard symbols



Toxic



Dangerous for the environment

Contains:
 R-phrases

2-Octyl-4-isothiazolin-3-one
 R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
 R34: Causes burns.
 R43: May cause sensitization by skin contact.
 R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

S23/24: Do not breathe spray. Avoid contact with skin.
 S27: Take off immediately all contaminated clothing.
 S28: After contact with skin, wash immediately with plenty of soap and water.
 S36/S37/S39: Wear suitable protective clothing, gloves and eye/face protection.
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3. Composition/information on ingredients

Chemical characterization
 Description
 Component

Pures
 2-Octyl -4-isothiazolin-3-one

26530-20-1	2-Octyl -4-isothiazolin-3-one	≥10%
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* All concentrations are percent by weight. Other components are water.

4. First- aid measures

Description of first aid measures

Inhalation	Move subject to fresh air.
Eye Contact	Immediately flush eyes with a large amount of water for at least 15minutes. Get prompt medical attention.
Skin Contact	Wash affected skin areas thoroughly with soap and water immediately after exposure. Remove and wash contaminated clothing thoroughly. Do not take clothing home to be laundered. Discard contaminated shoes, belts and other articles made of leather. Get prompt medical attention.
Ingestion	If swallowed, give 2 glasses of water to drink. Immediately see a physician. Never give anything by mouth to an unconscious person.
Note to Physician	Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage.
Indication of any immediate medical attention and special treatment needed	No date available.

5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing agents	Water spray jet, extinguishing powder, CO ₂ , foam.
Special hazards arising from the substance or mixture	Nitrogen oxides (NO _x) ,Carbon oxide (CO) ,Sulphur oxides
Advice for firefighters	Wear self-contained breathing apparatus and protective suit.
Further information	Cool containers / tanks with water spray. Minimize exposure. Do not breathe fumes.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Protective clothing, including chemical splash goggles, nitrile or butyl rubber full length gloves, rubber apron, or clothing made of nitrile or butyl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of this material. If material comes in contact with the skin during clean-up operations, immediately remove all contaminated clothing and wash exposed skin areas with soap and water.
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 material for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

See section 13 for further information.

7. Handling and storage

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage, including any incompatibilities The maximum recommended storage temperature for this material is 37°C/131F. The minimum recommended storage temperature for this material is 1 °C /32F. Store in cool place. 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.

Specific end uses No data available.

8. Exposure controls/personal/protection

Control parameters Components with workplace control parameters

Engineering Controls Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use local exhaust ventilation with a minimum capture velocity of 150 ft/min. (0.75 m/sec.) at the point of dust or mist evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Personal protective equipment

Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin 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.

The gloves listed below provide protection against permeation :
Nitrile /Butyl rubber.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

Other protective equipment Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. Physical and chemical properties

Information on basic physical and chemical properties

General Information

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|---|--|---|
| a) Appearance: | b) Odor: No data | c) Odour threshold: No data available |
| Form: Liquid | d) pH-value: No data | e) Melting point: No data available |
| Color: Yellow | | |
| f) Boiling point/Boiling range: Not determined | g) Flash point: Not determined | h) Evaporation rate: Not determined |
| i) Flammability (solid, liquid): Not applicable | j) Upper/lower flammability or explosive limits: No data | |
| k) Vapor pressure: Not applicable | l) Vapour density: No data | m) density at 20°C: 1.02-1.05 g/mL |
| n) Water solubility: Not Determined | o) Partition coefficient (Kow): Not Determined | p) Autoignition temperature: Not applicable |
| q) Decomposition temperature: Not Determined | r) Viscosity: Not Determined | s) Explosive properties: No an explosion hazard |

Other information No further relevant information available.

10. Stability and reactivity

Reactivity	No data available
Instability	This material is considered stable under specified conditions of storage, shipment and/or use. See section 7, Handling and storage, for specified conditions.
Possibility of hazardous reactions	No dangerous reactions known.
Thermal decomposition / Conditions to be avoided	No data available.
Incompatibility	Avoid contact with the following: oxidizing agents ,reducing agents ,amines , mercaptans.
Hazardous decomposition products	Thermal decomposition may yield the following: oxides of nitrogen, sulfur dioxides.

11. Toxicological information

Acute oral toxicity	LD50 ,Rat: 760 mg/kg
Acute inhalation toxicity	Rat, 4h: 0.33 mg/L Active ingredient
Acute dermal toxicity	LD50,Rabbit: 690 mg/kg



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Skin irritation	Rabbit , Corrosive (product)
Eye irritation	Rabbit , Corrosive (product)
Serious eye damage/eye irritation	Eyes - rabbit - Severe eye irritation
Respiratory or skin sensitization	May cause allergic skin reaction.
Carcinogenicity	Non- carcinogenicity. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Mutagenicity	Collective data indicate non-mutagenic.
Teratogenicity	Not teratogenic.
Sensitization	Skin sensitizer.
Reproductive toxicity	Not teratogenic.
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Inhalation	May cause respiratory irritation.
Aspiration hazard	No data available

Potential health effects

Inhalation	Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	Harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	Causes burns.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

Elimination information (persistence and degradability)

Physico-chemical removability	Activated Sludge Respiration Inhibition EC50: 47 mg/ L ai
Ecotoxicity effects	
Toxicity to fish	LC50 Oncorhynchus mykiss (rainbow trout) 96 h 0.047 mg/L Active ingredient
Toxicity to fish	LC50 Bluegill sunfish 96 h 0.18 mg/L Active ingredient
Toxicity to algae	EC50 Algae (Selenastrum capricornutum) 0.004 mg/L Active ingredient.
Toxicity to aquatic Invertebrates	EC50 Daphnia magna 48 h 0.32 mg/L Active ingredient

13. Disposal considerations

Methods of disposal	When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste with the characteristic of
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corrosive. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations (See 40 CFR 268). Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

Contaminated packaging

Dispose of as unused product.

14. Transport information

DOT

Proper shipping name	Corrosive, liquid, toxic, n.o.s. (2-n-Octyl-4-isothiazolin-3-one)
UN-Number	UN2922
Class	8(6.1)
Packing Group	II

IMO/IMDG

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Class	8(6.1)
Packing Group	II

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. Regulatory information

The product is classified and labelled according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] and European Directive 67/548/EEC as amended.

Labelling according Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



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Supplemental Hazard Statements	NONE

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Hazard symbols



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S-phrases	<p>S23/24: Do not breathe spray. Avoid contact with skin.</p> <p>S27: Take off immediately all contaminated clothing.</p> <p>S28: After contact with skin, wash immediately with plenty of soap and water.</p> <p>S36/S37/S39: Wear suitable protective clothing, gloves and eye/face protection.</p> <p>S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p>

For professional users only.

China. Inventory of Existing Chemical Substances (IECSC) : All intentional components are listed on the inventory, are exempt, or are supplier certified.

US. Toxic Substances Control Act (TSCA) : All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

European Union: The European classification of the product is based on the results of toxicity and/or ecotoxicity tests and not the calculation method (Directive 99/45/EEC)

16. Other Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Abbreviations and acronyms

CAS	Chemical Abstracts Service (Registry Number)
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals
LD50	LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals