

Material Safety Data Sheet

BIT-85

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name: BIT-85
Chemical Name: 1,2-Benzisothiazolin-3-one
Application: Industrial Microbicide
Uses advised against: No further relevant information available.

Supplier info:

Company name: SINOTRUST INTERNATIONAL TRADE CO. LTD
Address: RM101 NO.62 TAOXIAN STREET, ZHONGSHAN DIST DALIAN CHINA
TEL: 086-15734121186 Email: sales@sinotrustchemical.com
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2. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Component

Component	CAS#	Weight (%)
1,2-Benzisothiazol-3(2H)-one	2634-33-5	≥99
Water	7732-18-5	≤15

* All concentrations are percent by weight. Other components are water.

3. Hazards identification

Classification of the substance or mixture

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

Classification: Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Serious eye damage (Category 1)
Skin sensitization (Category 1)
Acute aquatic toxicity (Category 1)

Label elements

Hazard pictograms





Signal word	Danger
Hazard-determining components of labelling:	1, 2-Benzisothiazolin-3-one
Hazard statements	H302: Harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H400: Very toxic to aquatic life.
Precautionary statements	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.
Supplemental Hazard Statements	None

4. FIRST AID MEASURES

Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Eye Contact	IMMEDIATELY flush eyes with a large amount of water for at least 15 minutes. 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.

Most important symptoms and effects, both acute and delayed: No data available.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents	Water spray jet, extinguishing powder, CO ₂ , foam.
Special hazards arising from	Nitrogen oxides (NO _x), Carbon oxide (CO), Sulphur oxides



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the substance or mixture

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 See section 13 for further information.	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
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

a) Appearance: Form: Solid Color: Faintly yellow	b) Odor: No data available d) pH-value: No data available	c) Odour threshold: No data available e) Melting point (BIT) : 154-158°C
f) Boiling point/Boiling range: Not Determined	g) Flash point: Not applicable	h) Evaporation rate: Not determined
i) Flammability (solid, liquid): Not applicable	j) Upper/lower flammability or explosive limits: Not applicable	
k) Vapor pressure: Not applicable	l) Vapour density: Not applicable	m) density at 20°C: Not Determined
n) Water solubility: insoluble	o) Partition coefficient (K_{ow}): 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. Hazardous Polymerization will not occur.
Thermal decomposition / Conditions to be avoided	No data available.
Incompatibility	Avoid contact with the following: oxidizing agents ,reducing agents ,amines , mercaptans. Avoid contact with: Strong acids. Strong bases. Strong oxidizers. Avoid contact with metals such as: Aluminum. Brass. Copper. Copper alloys. Mild steel.
Hazardous Decomposition Products:	Thermal decomposition may yield the following: oxides of nitrogen, sulfur dioxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Acute Oral LD50, rat, 1020mg/kg
Chronic toxicity and Carcinogenicity	No data available
Mutagenicity	No data available
Reproductive/Teratology toxicity	No data available
Sensitization	
Skin Irritation	May cause allergic skin reaction.
Eye Irritation	Causes severe eye irritation.

12. ECOLOGICAL INFORMATION

Biodegradability	No data available
Bioaccumulative	Accumulation in aquatic organisms is unlikely
Ecotoxicity effects	
Toxicity to fish	LC50 Rainbow trout (<i>Oncorhynchus mykiss</i>) 96 h, 1,9 mg/l LC50 Sheepshead minnow (<i>Cyprinodon variegatus</i>) 96 h, 19 mg/l
Toxicity to algae	Static test EC50 <i>Pseudokirchneriella subcapita</i> 96 h, 0,38 mg/l EC50 Marine algae (<i>Skeletonema costatum</i>) 96 h, 0,4 mg/l
Toxicity to bacteria	Respiration inhibition of activated sludge EC50 Bacteria
Toxicity to aquatic	EC50 <i>Daphnia magna</i> 48 h, 3.7 mg/L



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invertebrates

Ozone depletion potential	No report proves the ozone depletion potential
Photochemical ozone creation potential	No report proves the Photochemical ozone creation potential

13. DISPOSAL CONSIDERATIONS

Methods of disposal	This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 91/689/EEC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water
Contaminated packaging	Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT

Proper shipping name	Environmentally hazardous substance, solid, n.o.s. (1,2-Benzisothiazolin-3-one)
UN-Number	UN 3077
Class	9
Packing group	III

IMO-IMDG

Proper shipping name	Environmentally hazardous substance, solid, n.o.s. (1,2-Benzisothiazolin-3-one)
UN-Number	UN 3077
Class	9
Packing group	III

IATA-DGR

Proper shipping name	Environmentally hazardous substance, Solid, n.o.s. (1,2-Benzisothiazolin-3-one)
UN-Number	UN 3077
Class	9
Packing group	III

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



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Signal word

Danger

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Hazard statements

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Precautionary statements

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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.

Supplemental Hazard Statements

None

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



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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

* Data compared to the previous version altered