



Material Safety Data Sheet

BIT-80

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

Product Name	BIT-80
Application	Industrial Microbicide
Uses advised against	No further relevant information available.
Supplier:	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. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS#	Weight (%)
1,2-Benzisothiazol-3(2H)-one	2634-33-5	≥80
Water	7732-18-5	≤20

3. Health Hazard information:

Inhalation

Inhalation of vapor or mist can cause the following:- irritation of nose and throat

Eye Contact

Risk of serious damage to eyes

Skin Contact

May cause sensitization by skin contact

Ingestion

Material is harmful if swallowed.

4. FIRST AID MEASURES

Inhalation

Move subject to fresh air. If breathing is irregular or stopped, administer artificial respiration. Immediate medical attention is required.

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.



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Ingestion

If swallowed, Clean mouth with water and drink afterwards plenty of water.

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.

5. FIRE FIGHTING MEASURES

Thermal decomposition During a fire, irritating and highly toxic gases and/or fumes may be generated during combustion or decomposition.

Suitable extinguishing media: Use the following extinguishing media when fighting fires involving this material: Dry powder, Carbon dioxide (CO₂), Foam, Water spray.

Specific hazards during fire fighting: Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit.

Further information: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for cleaning up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Conditions of Storage: Keep tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows airpurifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

**Eye Protection**

Use Chemical safety goggles. employed.

Hand Protection

Use Compatible chemical-resistant gloves.

Rinse and remove gloves immediately after use. Wash hands with soap and water.

Other Protection

Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

Engineering Controls (Ventilation)

Safety shower and eye bath. Mechanical exhaust required.

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

Appearance

Form	solid
Colour	Faintly yellow
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	not applicable
Relative vapour density	not applicable
Water solubility	not applicable
Relative density	not applicable
Viscosity, dynamic	not applicable
Percent volatility	not applicable

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Instability

This material is considered stable under specified conditions of storage, shipment and/or use. See section 7, Handling And Storage, for specified conditions.

Hazardous Decomposition Products

Thermal decomposition may yield the following:

- sulfur dioxide - oxides of nitrogen - Carbon monoxide - Carbon dioxide

Incompatibility

Avoid contact with the following:

- oxidizing agents - reducing agents - amines – mercaptans



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11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Bioaccumulation Accumulation in aquatic organisms is unlikely.

Ecotoxicity effects

Toxicity to fish	LC50 Rainbow trout (<i>Oncorhynchus mykiss</i>) 96 h 1,9 mg/l
Toxicity to fish	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
Toxicity to algae	EC50 Marine algae (<i>Skeletonema costatum</i>) 96 h 0,4 mg/l
Toxicity to bacteria	Respiration inhibition of activated sludge EC50 Bacteria (active sludge) 3 h 28,52 mg/l
Toxicity to aquatic invertebrates	EC50 <i>Daphnia magna</i> 48 h 3,7 mg/l
Toxicity to aquatic invertebrates	LC50 Mysid shrimp (<i>Mysidopsis bahia</i>) 96 h 1,9 mg/l

13. DISPOSAL CONSIDERATIONS

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 after burner and scrubber. Observe all federal, state, and local environmental regulations.

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

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

15. REGULATORY INFORMATION

Label

Classification and labeling have been performed according to EU directives.

Hazard symbol and Indication of danger

C

Corrosive



Contains:

1,2-Benzisothiazol-3(2H)-one

R-phrases(s)

R22

Harmful if swallowed

R38

Irritating to skin.

R41

Risk of serious damage to eyes.

R43

May cause sensitization by skin contact.

R50

Very toxic to aquatic organisms.

S-phrases(s)

S24

Avoid contact with skin.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S/37/39

Wear suitable gloves and eye/face protection.

S61

Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

Legend to Abbreviations

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

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