



Kanghua Chemical Co., Ltd.

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Benzotriazole
Chemical name: Benzotriazole
Synonyms: 1,2,3-Benzotriazole, 1H-benzotriazole

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Benzotriazole can be used as corrosion inhibitors and De-icing products
Uses advised against: No information available.

1.3 Details of the supplier of the SDS

Manufacturer: Kanghua Chemical Co., Ltd.
Address: No. 28, Yanggang Avenue, Shitan Industrial Park, Cross Town, Quan Jiao County, Chuzhou City, Anhui Province China
Postal code: 239599
Telephone: +86-550-5388660
E-mail: zj@kanghuachem.com

1.4 Emergency telephone number

+86-550-5388660 (24 Hours available)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification

Acute toxicity, Inhalation (Category 5)

Acute toxicity, Oral (Category 4)

Eye irritation (Category 2A)

Chronic aquatic toxicity (Category 3)

Harmful by inhalation and if swallowed. Irritating to eyes. Harmful to aquatic organism, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Mark in accordance with Regulation (EC) No 1272/2008 (CLP)

Hazard pictogram(s):



GHS07



GHS09



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Signal word: Warning

Hazard statement(s):

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

Prevention

- P261 Avoid inhaling dust.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye protection.

Response:

- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P305+ P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists, get medical advice.
- P363 Contaminated clothes can only be reused after being cleaned.

Storage:

- P402+P404 Store in a dry place and keep sealed.
- P405 Lock and store securely; keep away from food, feed, and oxidants.

Disposal:

- P501 Dispose of contents/container in accordance with local environmental regulations.

Supplemental Hazard information (EUH):

No information available.

Special rules for supplemental label elements for certain mixtures:

No information available.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

Substance name:	Benzotriazole
Index No.:	Not listed
CAS No.:	95-14-7
Benzotriazole:	≥99.00 %
Formula:	$C_6H_5N_3$
Molecular Weight:	119.12

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:



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In all cases of doubt, or when symptoms persist, seek medical attention.

Following inhalation:

Move immediately to fresh air, avoid exertion and seek medical attention. If breathing is difficult, give oxygen.

Following skin contact:

Wash with soap and plenty of water. If skin irritation occurs: Get medical attention.

Following eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Following ingestion:

Rinse mouth. Call a POISON Center or doctor if you feel unwell. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into lungs.

4.2 Most important symptoms and effects, both acute and delayed

May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of the immediate medical attention and special treatment needed

No information available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical powder, carbon dioxide, water or chemical foams.
Unsuitable extinguishing media: No information available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x).

5.3 Advice for fire-fighters

Fire-fighters should wear appropriate breathing apparatus and protective equipment. Fire-fighting in the wind. Ensure adequate ventilation. Move container from fire area if it can be done without risk. Cool containers with water spray. Prevent fire-fighting water from entering



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surface water or groundwater. Evacuate all non-essential personnel.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to SECTION 8 for personal protective equipment. Ensure adequate ventilation. Remove all ignition sources. Avoid contact with eyes and skin. Avoid generation of dust.

6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater. Discharge into the environment must be avoided. Inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

Sweep up, place in a container and hold for waste disposal. Wash contaminated area with plenty of water. Avoid creation of dust.

6.4 Reference to other SECTIONS

See SECTION 7 for information on safe handling.

See SECTION 8 for information on personal protection equipment.

See SECTION 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use this material with adequate ventilation. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Avoid breathing dust.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool dry and well-ventilated place. Keep away from heat and ignition sources. Keep away from incompatible materials.

SECTION 8 : Exposure controls/personal protection



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8.1 Exposure controls

Appropriate engineering controls:

Provide local exhaust or process enclosure ventilation system. Prepare safety shower and eye wash equipments.

8.2 Personal protective equipment

Eye and protection: Wear appropriate protective eyeglasses or chemical safety goggles.

Hand protection: Wear nitrile rubber gloves to prevent hand exposure.

Skin protection: Wear suitable protective clothing.

Respiratory protection: Always use a respirator when necessary.

8.3 Environmental exposure controls:

Avoid entering into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Off-white needle, powder, flake or granular

Odour: A slight characteristic

pH: 5.0-6.0

Melting point: 97°C-99.5°C

Boiling point: 350 °C(1013hPa)

Flash point: 170°C-closed up

Evaporation rate: Not applicable

Flammability (solid, gas): Not applicable

Upper/lower flammability or explosive limits: Not available

Vapour pressure(mmHg): 0.04

Density: 1.36 g/cm³

Solubility(ies): Not available.

logarithm of the octanol/water partition coefficient: 1.44

Partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available

Viscosity: Not applicable

Explosive properties: Not available

Oxidising properties: Not available



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9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Strong heating, incompatible materials.

10.5 Incompatible materials

Strong oxidizing materials, Heavy metals.

10.6 Hazardous decomposition products

Other decomposition products-no data available.

SECTION 11: Toxicological information

Acute oral toxicity:	: LD50:560 mg/kg Species:rat
Acute dermal toxicity:	: LD50>2000mg/kg Species:rabbit
Skin irritation:	Species:rabbit No skin irritation
Eye irritation:	Species:rabbit Mild eye irritation
Futher information:	Information refers to the main component



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SECTION 12: Ecological information

Ecotoxicity effects

Toxicity to fish	: LC50: >100ml Exposure time:96 h Species: Danio rerio(zebra fish)
Toxicity to daphnia and other Aquatic invertebrates	: EC50: 91mg/l Exposure time:48 h Species: Daphnia magna
Toxicity to algae	: LC50 : 231mg/l Exposure time:72h Species:Desmodesmus subspicatus(green algae)
Toxicity to bacteria	: EC50: 1.060mg/l Method:OECD Guideline for Testing of Chemicals,No.209

Elimination information(persistence and degradability)

Biodegradability	: 90% Method: DIN 38412-part 25
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Further information on ecology

Adsorbed organic bound halogens(AOX)	: Remarks : The product does not contain any organically bonded halogens which can lead to AOX values in effluent water.
Additional ecological information	: Information refers to the main component : Do not allow escape into waterways,waste water or soil

SECTION 13: Disposal considerations

Waste treatment methods : Dispose in accordance with all applicable federal, state/regional and local laws and regulations. Recommended wash container recycling.

SECTION 14: Transport information

14.1 UN Number

UN3077



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14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID,N.O.S.

14.3 Transport hazard class(es)

9

14.4 Packing group

III

14.5 Environmental hazards

Marine pollutant

14.6 Special precautions for user

Donot get in eyes. Do not breathe vapor.Check the container for breakage or leak.

Check the container for breakage,corrosion or leak.Donot fall, drop, or shock the container.Prevent collapse of the stack.

Observe regulatory requirements of packaging,labeling and transportation.

SECTION 15: Regulatory information

U.S. FEDERAL REGULATIONS:

TSCA: All components of this product are listed on the TSCA inventory.

CERCLA: No components of this product are list.

SARA TITLE III (EPCRA) Section 313: No components of this product are listed

SARA TITLE III (EPCRA) Section 311/312:

Acute health hazard - Yes

Chronic health hazard – No

Fire Hazard - No Pressure

Hazard – No

Reactivity Hazard – No

SECTION 16: Other information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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