

Nantong Kanghua Chemical Co., Ltd.

No.108, Shanghai Road, Binjiang Fine Chemical Industrial Park Zone, Qidong, Jiangsu Province, China

Material Safe Data Sheet

1. Identification of substance:

. Product details:

. Chemical name: Benzotriazole

. Supplier/Manufacturer:

Nantong Kanghua Chemical Co., Ltd.

ADDRESS: No.108, Shanghai Road, Binjiang Fine Chemical

Industrial Park Zone, Qidong, Jiangsu Province, China

Tel : +86-51383201590 Post: 226200.

Effective date: 2021.04.16

2. Hazard(s) identification

Emergency Overview

OSHA Hazards

Harmful by ingestion., Harmful by skin absorption., Irritant

GHS Classification

Acute toxicity, Inhalation (Category 5)

Acute toxicity, Dermal (Category 4)

Acute toxicity, Oral (Category 4)

Eye irritation (Category 2A)

Acute aquatic toxicity (Category 3)

Chronic aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements



Pictogram:

SIGNAL WORD: Warning

3. Composition/information on ingredients

3.1 Pure material:

Chinese and English name: 苯并三氮唑, Benzotriazole

Chemical Abstract Service No. (CAS No.): 95-14-7

The hazardous ingredient (% of the content): N/A

Chemical properties: N/A

Chinese and English names of the hazardous ingredients

Concentration or concentration ranges (ingredient percentage)

4. First aid measures

. General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at

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least 48 hours after the accident.

. After inhalation

Supply fresh air; consult doctor in case of complaints.

. After skin contact

Wash with water and soap and rinse with plenty of water.

If skin irritation continues, consult a doctor.

. After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

. After swallowing

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

5. Fire fighting measures

. Suitable extinguishing agents

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

. Special hazards caused by the material, its products of combustion or resulting gases:

Formation of toxic gases is possible during heating or in case of fire. Dangerous decomposition product

see chapter 10: stability and reactivity

Persons, who have inhaled burning vapours must be observed by medicals for at least 48 hours.
Symptoms

of poisoning may even occur several hours after the accident.

. Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale combustion vapors.

. Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulation.

6. Accidental release measures

. Person-related safety precautions:

Ensure adequate ventilation:

Avoid formation of dust.

Wear protective equipment. Keep unprotected persons away.

Do not smoke – keep ignition sources away

. Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to penetrate the ground/soil.

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In case of seepage into the ground inform responsible authorities.

. Measures for cleaning/collecting:

Ensure adequate ventilation.

Avoid dust formation absolutely. If necessary pick up with a tested and approved industrial vacuum

cleaner.

Dispose contaminated material as waste according to item 13.

7. Handling and storage

. Handling

. Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

. Information for safe handling:

Dust can combine with air to form an explosive mixture.

Keep ignition sources away – Do not smoke.

Protect against electrostatic charges.

. Storage

. Requirements to be met by storerooms and receptacles:

Store container tightly sealed at a cool and dry place with sufficient ventilatoin.

. Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

. Further information about storage conditions:

Keep receptacle tightly sealed.

. Storage class 11 Flammable solids.

. Class according to regulation on flammable liquids: void

8. Exposure controls and personal protection

. Additional information about design of technical systems:

Install appropriate mechanical ventilation.

Keep away from open flames and other ignition sources.

Protect against electrostatic charges.

Components with limit values that require monitoring at the workplace: Not required.

Additional information:

The lists that were valid during the creation were used as basis.

. Personal protective equipment

. General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

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Wash hands before breaks and at the end of work.

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

. Breathing equipment:

Short term filter device:

Filter p2.

. Protection of hands: protective gloves.

. Eye protection: Tightly sealed goggles.

. Body protection: protective work clothing.

9. Physical and chemical properties;

. From: acicular, schistose

. Colour:

Light brown

White

. Odour : characteristic

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Value/Range	Unit	Method
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. Change in condition

. Melting point/Melting range:

$\geq 97.0^{\circ}\text{C}$

. Boiling point/Boiling range:

160(2mmHg) $^{\circ}\text{C}$

. Flash point:

182 $^{\circ}\text{C}$

. Flammability(solid,gaseous)

product is not flammable.

. Danger of explosion:

Product is not explosive.However,

Formation of explosive air /dust

Mixtures is possible.

10. Stability and reactivity

. thermal decomposition /conditions to be avoided:

No decomposition if used and stored according to specifications.

. Materials to be avoided: strong oxidants.

. Dangerous reactions No dangerous reactions known

. Dangerous products of decomposition:

Nitrogen oxides (Nox)

Carbon monoxide and carbon dioxide

11. Toxicological information

. Acute toxicity:

LD/LC50 values that are relevant for classification:

Oral:LD50:675 mg/kg (rat)

. Primary irritant effect:

. on the skin:

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No irritation, but slight irritation or redness is possible after long or repeatedly mechanical contact.

. **on the eye:** May cause irritation to the eyes.

. **Sensitization:** No sensitizing effects known.

12. Ecological information:

. General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

13. Disposal considerations

. Product:

. Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

. Uncleaned packagings:

. Recommendation:

Disposal must be made according to official regulations.

14. Transport information

. Land transport ASR/RID (cross-border)

. **ADR/RID class:** No hazardous good according to the regulation.

. Maritime transport IMDG:

. **IMDG Class:** No hazardous good according to the regulation.

. Air transport ICAO-TI and IATA-DGR:

. **ICAO/IATA Class:** No hazardous good according to the regulation.

15. Regulations

. Markings according to EU guidelines:

The product has been classified and marked in accordance with EU.

Directives/Ordinance on Hazardous Materials

. **Code letter and hazard designation of product: Xn Harmful**

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. Risk phrases: 22 harmful if swallowed.

. National regulations

.Classification according to VbF: Void

Water hazard class:

Water hazard class 2 (Assessment by list): hazardous for water.
