



Section 1 – Company Information

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Collect Calls Accepted

Section 2 – Product Identification/ Information on Ingredients

PRODUCT NAME Benzotriazole
CAS NUMBER 95-14-7
SYNONYM 1,2,3-Benzotriazole, 1H-Benzotriazole
FORMULA $C_6H_5N_3$

PRODUCT	CAS NUMBER	% BY WEIGHT
Benzotriazole	95-14-7	100%

Section 3 – Hazards Identification

Emergency Overview

OSHA Hazards: Harmful by ingestion, Harmful by skin absorption, Irritant

HMIS Classification

Health Hazard: 2

Flammability: 1

Physical hazards: 0

NFPA Rating

Health Hazard: 3

Fire: 1

Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: Harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Harmful if swallowed.

Section 4 – First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.
Move out of dangerous area.

Inhalation: If inhaled, move person into fresh air. If not breathing give artificial respiration.
Consult a physician.



Skin Contact: Wash off with soap and plenty of water. Consult a physician.
Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 – Fire Fighting Measures

Flammable Properties

Flash Point: 170 °C (338 °F) - Closed cup

Ignition Temperature: No data available

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 – Accidental Release Measures

Personal Precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental Precautions: Do not let product enter drains. Discharge into the environment must be avoided.

Methods for Cleaning Up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7 – Handling & Storage

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.

Storage: Keep container tightly closed in a dry and well-ventilated place.

Section 8 – Exposure Controls & Personal Protection

Contains no substances with occupational exposure limit values.

Personal Protective Equipment

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

Hand Protection: Handle with gloves.

Eye Protection: Safety glasses

Skin and Body Protection: Choose body protection according to the amount and



Safety Data Sheet (Benzotriazole)

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concentration of the dangerous substance at the work place.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of workday.

Section 9 – Physical & Chemical Properties

Appearance

Form: Solid

Color: Beige

Safety Data

pH: No data available

Melting Point: 97 – 99°C (207 – 210°F)

Boiling Point: No data available

Flash Point: 170°C (338°F) - Closed cup

Ignition Temperature: No data available

Lower Explosion Limit: No data available

Upper Explosion Limit: No data available

Vapor Pressure: 0.05 hPa (0.04 mmHg) at 20°C (68°F)

Water Solubility: No data available

Partition Coefficient: n-Octanol/Water log Pow: 1.44

Section 10 – Stability & Reactivity Data

Storage Stability: Stable under recommended storage conditions.

Conditions to Avoid: Exposure to light may affect product quality.

Materials to Avoid: Strong oxidizing agents, Heavy metals

Hazardous Decomposition Products

Hazardous Decomposition Products Formed under Fire Conditions: Carbon oxides and nitrogen oxides (NO_x)

Section 11 – Toxicological Information

Acute Toxicity

LD50 Oral – Rat: 560 mg/kg

LC50 Inhalation - Rat - 4hrs: 1400 ppm

LD50 Dermal – Rat: > 1,000 mg/kg

Irritation and Corrosion

Skin – rabbit: No skin irritation



Sensitisation: No data available

Chronic Exposure

Carcinogenicity - Rat - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Brain and Coverings:Tumors.

Carcinogenicity - Mouse - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration:Tumors.
Lungs, Thorax, or Respiration:Bronchiogenic carcinoma.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Genotoxicity in vitro - Rat - Embryo
Morphological transformation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: Harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Harmful if swallowed.

Additional Information

RTECS: DM1225000



Section 12 – Ecological Information

Elimination Information (Persistence and Degradability)

Biodegradability Result: Not readily biodegradable.

Ecotoxicity Effects

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 25 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - 91 mg/l - 48 h

Further Information on Ecology: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

no data available.

Section 13 – Disposal Consideration

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Section 14 – Transportation Data

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Section 15 – Regulatory Information

OSHA Hazards: Harmful by ingestion, Harmful by skin absorption, Irritant

DSL Status: All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard



Massachusetts Right To Know Components

Benzotriazole
CAS-No: 95-14-7

Pennsylvania Right To Know Components

Benzotriazole
CAS Number: 95-14-7

New Jersey Right To Know Components

Benzotriazole
CAS Number: 95-14-7

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

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.

