



## Section 1 - Chemical Product and Company Identification

**Product Name** Benzotriazole pure, 97%  
**Product Code** 98101  
**CAS No** 95-14-7  
**Use for** Laboratory Chemicals.  
**Company Name** Sisco Research Laboratories Pvt. Ltd.  
**Address** 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Andheri (E), Mumbai - 400 099, India

## Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
95-14-7	Benzotriazole	97%	202-394-1

## Section 3 - Hazards Identification

### Risk advice to man and the environment

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

## Section 4 - First Aid Measures

**Eyes:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin:** Wash off with soap and plenty of water. Consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

**Notes to Physician:** Consult a physician. Show this safety data sheet to the doctor in attendance.

## Section 5 - Fire Fighting Measures

### Suitable extinguishing

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

### Special protective

**equipment for fire-fighters:** Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6 - Accidental Release Measures



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**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 and 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:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## Section 8 - Exposure Control / Personal Protection

### 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:** The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

**Eye protection:** Safety glasses

**Skin and body protection:** Choose body protection according to the amount and 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 and Chemical Properties

**Physical State:** Solid  
**Color:** White to off-white  
**Melting point:** 94 - 98 °C  
**Molecular Formula:** C<sub>6</sub>H<sub>5</sub>N<sub>3</sub>  
**Molecular Weight:** 119.13

## Section 10 - Stability and Reactivity



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**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, nitrogen oxides (NOx)

## Section 11 - Toxicological Information

**Acute toxicity:** LD50 Oral - rat - 560 mg/kg

LC50 Inhalation - rat - 4 h - 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.

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:** Harmful if inhaled. May cause respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** Harmful if swallowed.

**Additional Information:** RTECS: DM1225000

## Section 12 - Ecological Information



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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: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.No data available

## Section 13 - Disposal Considerations

**Product:** Observe all federal, state, and local environmental regulations. 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 afterburner and scrubber.

**Contaminated packaging:** Dispose of as unused product.

## Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods

**Hazard Class:**

**UN Number:**

**Packing Group:**

## Section 15 - Regulatory Information

### Labelling according to EC Directives

Hazard symbols: Xn Harmful

R-phrases: R20/22 Harmful by inhalation and if swallowed.R36 Irritating to eyes.R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37 Wear suitable protective clothing and gloves.S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

## Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.