

## **1. Identification of the substance/preparation and of the company/undertaking**

### *Identification of the product*

Benzotriazole

### *Manufacturer/supplier identification*

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## **2. Hazards identification**

### **Classification of the substance or mixture**

#### **Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Acute toxicity, Oral (Category 4)

Acute toxicity, Inhalation (Category 4)

Serious eye damage (Category 2A)

Short-term (acute) aquatic hazard (Category 3)

Long-term (chronic) aquatic hazard (Category 3)

### **Label elements**

Pictogram



Signal word Warning

### Hazard statement(s)

H302 + H332 Harmful if swallowed or if inhaled.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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/ attention.

P501 Dispose of contents/ container to an approved waste disposal plant..

Supplemental Hazard Statements  
none

### **3. Composition/information on ingredients**

*Synonyms*

Benzotriazole

CAS-No.: 95-14-7

*M*: 119.13 g/mol

Molecular formula: C<sub>6</sub>H<sub>5</sub>N<sub>3</sub>

### **4. First aid measures**

**If inhaled**

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

**In case of skin contact**

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

**In case of eye contact**

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

**If swallowed**

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

### **5. Fire-fighting measures**

**Suitable extinguishing media**

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

**Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

### **6. Accidental release measures**

**Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**

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

**Methods and materials for containment and cleaning uputions**

(US) or EN 166(EU).

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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

### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Control of environmental exposure**

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

## **9. Physical and chemical properties**

**Form:** crystals

**Colour:** white or light pink

**Odour:** not available

**pH value:**6~7

**Melting point:**99°C

**Boiling point:** 204°C

**Ignition temperature:** not available

**Flash point:** 170°C

**Autoignition temperature:** not available

### **Explosion limits**

**lower:** not available

**upper:** not available

**Density :** 1.19 g/cm<sup>3</sup>

**Bulk density:** not available

### **Solubility in**

**water (20 °C) :** slightly soluble in water

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

## **10. Stability and reactivity**

### **Chemical stability**

Stable under recommended storage conditions.

### **Conditions to avoid**

Expose to air.

### **Materials to avoid**

Strong oxidant, heavy metal.

### **Hazardous decomposition products**

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Other decomposition products - no data available

## **11. Toxicological information**

### **Acute toxicity**

LD50 Oral - Rat - 500 mg/kg

LD50 Dermal - Rat - > 1,000 mg/kg

### **Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation - 4 h

### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Irritating to eyes. - 24 h

### **Respiratory or skin sensitization**

Maximization Test - Guinea pig

Result: negative

### **Germ cell mutagenicity**

no data available

### **Carcinogenicity**

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.

### **Specific target organ toxicity - single exposure**

no data available

### **Specific target organ toxicity - repeated exposure**

no data available

### **Aspiration hazard**

no data available

## **12. Ecological information**

### **Toxicity**

Toxicity to fish

LC50 - Danio rerio (zebra fish) - 180 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 8.58 mg/l - 48 h

Toxicity to algae

EC50 - - Selenastrum capricornutum (green algae) - 75 mg/l - 72 h

### **Persistence and degradability**

Biodegradability aerobic - Exposure time 28 d

Result: 0 % - Not readily biodegradable.

### **Bioaccumulative potential**

no data available

### **Mobility in soil**

no data available

### **PBT and vPvB assessment**

no data available

### **Other adverse effects**

no data available

## **13. Disposal considerations**

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**14. Transport information**

**ADR/RID**

UN-Number: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

**IMDG**

UN-Number: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

Marine pollutant: no

**IATA**

UN-Number: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

**15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**16. Other information**

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.