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SAFETY DATA SHEET

1,2,3-BENZOTRIAZOLE

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

1.1 Product identifier:	
CAS Number:	95-14-7
EC number:	202-394-1
1.2 SYNONYMS:	• 1,2,3-Benzotriazole • BT • BTA • Benzotriazol

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4) Eye irritation (Category 2) Long-term (chronic) aquatic hazard (Category 2)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H302:** Harmful if swallowed. **H319:** Causes serious eye irritation. **H411:** Toxic to aquatic life with long lasting effects.
Precautionary Statements:	**P264:** Wash skin thoroughly after handling. **P273:** Avoid release to the environment. **P280:** Wear eye protection/ face protection.

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	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/ attention. **P391:** Collect spillage. **P405:** Store locked up. **P501:** Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, and difficulty breathing, potentially leading to more severe respiratory issues with prolonged exposure.
Ingestion:	can cause gastrointestinal irritation, nausea, vomiting, and abdominal pain, and may lead to more serious health effects if consumed in large amounts.
Skin Contact:	may cause irritation, redness, and discomfort, and prolonged exposure could lead to dermatitis or other skin reactions.
Eye contact:	can cause irritation, redness, watering, and a burning sensation, potentially leading to more severe damage with prolonged exposure.
Chronic Exposure:	may lead to long-term health effects such as respiratory issues, skin sensitization, liver or kidney damage, and an increased risk of developing allergic reactions.

Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as respiratory disorders (e.g., asthma), skin conditions (e.g., eczema), or liver and kidney diseases.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 95-14-7 1,2,3-BENZOTRIAZOLE
Identification number(s):	EC number: 202-394-1

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms and effects of benzotriazole exposure include acute respiratory

	irritation, gastrointestinal discomfort, and skin or eye irritation, with delayed effects potentially involving chronic respiratory issues, allergic reactions, or organ damage with prolonged exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Carbon oxides, nitrogen oxides.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth,

	vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.

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8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	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. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Crystalline solid
Colour:	White to light brown
Odour:	Odourless to slight aromatic
pH-value:	Not applicable
Melting point/Melting range:	100°C
Boiling point/Boiling range:	250°C
Flammability (solid, gaseous):	Combustible
Ignition temperature:	520°C

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Decomposition temperature:	250°C
Self-igniting:	None
Flash point:	Not determined
Danger of explosion:	None
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	3.19×10^{-6} hPa at 25°C.
Density at 20 °C:	1.34 g/cm^3
Relative density:	1.34
Vapour density:	No data available
Evaporation rate:	No data available
Solubility in / Miscibility with-·water at 20 °C:	Slightly Soluble
Partition coefficient:(n-octanol/water)	2.72
Viscosity:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	Stable at room temperature
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Can undergo hazardous reactions in contact with strong oxidizing agents, strong bases.
10.4 Conditions to avoid	Excessive Heat, moisture, open flames.
10.5 Incompatible materials	Strong oxidizers, acids and bases, metals.
10.6 Hazardous decomposition products	Can release carbon oxides, nitrogen oxides upon decomposition.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): 500 mg/kg **LD50** (Dermal, Rabbit): no data available **LC50** (Inhalation Rat): 1,5 mg/l (4hr)
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	Causes serious eye irritation
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Not Biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): 180 mg/l (96 hr) EC50(daphnia): 8,58 mg/l (48 hr) ErC50(algae): 231 mg/l (72hr)
12.2 Persistence and degradability:	Not Biodegradable
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water and Detergent, Isopropyl alcohol, acetone, diluted sodium hydroxide, commercial solvent cleaners.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	2811
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	1,2,3-BENZOTRIAZOLE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	6.1
14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	Yes, harmful to aquatic life.
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified in listed substance.
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information.

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