

1,2,3, Benzotriazole CAS No 95-14-7

MATERIAL SAFETY DATA SHEET SDS/MSDS

	Product name	: 1,2,	3, Benzotriazole
	CAS-No.	: 95-14	1-7
1.2 Relevant identified uses of the substance or mixture and uses advised against		ance or mixture and uses advised against	
	Identified uses	: Labo	ratory chemicals, Industrial & for professional use only.
3	Details of the supplier of Company	: Palla 253,	/ Chemicals & Solvents Pvt. Ltd Shiv Shakti Industrial Estate, Opp Mittal Estate eri Kurla Road, Andheri (E), Mumbai - 400050
	Telephone Email		22 4928 4000 @pallavchemicals.com
4	Emergency telephone nu	ıber	
	Emergency Phone #		22 4928 4000 (9:00am - 6:00 pm) [Office rs]
ЕСТ	ION 2: Hazards identifica	on	

1272/2008 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Eye irritation (Category 2), H319 Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 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)P273P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing.Supplemental
Hazard Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	1,2,3-Benzotriazole 1H-Benzotriazole
Formula	:	C6H5N3
Molecular weight	:	119.13 g/mol
CAS-No.	:	95-14-7
EC-No.	:	202-394-1

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
Benzotriazole			
CAS-No.	95-14-7	Acute Tox. 4; Eye Irrit. 2;	<= 100 %
EC-No.	202-394-1	Aquatic Chronic 2; H302, H319, H411	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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 dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (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.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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	a)	Appearance	Form: solid Colour: beige
	b)	Odour	No data available
	c)	Odour Threshold	No data available
	d)	рН	6.0 - 7.0 at 100 g/l at 20 °C (aqueous suspension)
	e)	Melting point/freezing point	Melting point/range: 97 - 99 °C - lit.
	f)	Initial boiling point and boiling range	No data available
	g)	Flash point	170 °C - closed cup
	h)	Evaporation rate	No data available
	i)	Flammability (solid, gas)	No data available
	j)	Upper/lower flammability or explosive limits	No data available
	k)	Vapour pressure	0.04 mmHg at 20 °C
	I)	Vapour density	No data available
	m)	Relative density	No data available
	n)	Water solubility	No data available
	o)	Partition coefficient: n- octanol/water	log Pow: 1.44
	p)	Auto-ignition temperature	400 °C
	q)	Decomposition temperature	No data available
	r)	Viscosity	No data available
	s)	Explosive properties	No data available
	t)	Oxidizing properties	No data available
9.2		her safety information data available	
SECTION 10: Stability and reactivity			
40.4	Dee		

10.1 Reactivity No data available

- 10.2 Chemical stability Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid Exposure to light may affect product quality.
- **10.5** Incompatible materials Strong oxidizing agents, Heavy metals

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - 500 mg/kg(Benzotriazole) (OECD Test Guideline 423) LD50 Dermal - Rat - > 1,000 mg/kg(Benzotriazole)

Skin corrosion/irritation

Skin - Rabbit(Benzotriazole) Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit(Benzotriazole) Result: Irritating to eyes. - 24 h (OECD Test Guideline 405)

Respiratory or skin sensitisation

Maximisation Test - Guinea pig(Benzotriazole) Result: Does not cause skin sensitisation. (OECD Test Guideline 406)

Germ cell mutagenicity

Ames test(Benzotriazole) Salmonella typhimurium Result: negative OECD Test Guideline 474(Benzotriazole) Mouse - male and female Result: negative

Carcinogenicity

This product is or contains a component that is not classifiable as to its classification.(Benzotriazole)

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.

Reproductive toxicity

No data available(Benzotriazole)

Specific target organ toxicity - single exposure No data available(Benzotriazole)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(Benzotriazole)

Additional Information RTECS: DM1225000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Benzotriazole)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	semi-static test LC50 - Danio rerio (zebra fish) - 180 - 96 h(Benzotriazole) mg/l (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia galeata (water flea) - 8.58 mg/l - 48 h(Benzotriazole) (OECD Test Guideline 202)
Toxicity to algae	Growth inhibition EC50 - Selenastrum capricornutum (green algae) - 75 mg/l - 72 h(Benzotriazole) (OECD Test Guideline 201)

12.2 Persistence and degradability Biodegradability aero

aerobic - Exposure time 28 d(Benzotriazole) Result: 0 % - Not readily biodegradable. (OECD Test Guideline 301D)

- **12.3 Bioaccumulative potential** No data available
- 12.4 Mobility in soil

No data available(Benzotriazole)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN numbe ADR/RID:	-	IMDG: -	IATA: -
14.2		shipping name Not dangerous goods Not dangerous goods Not dangerous goods		
14.3	Transport I ADR/RID:	hazard class(es) -	IMDG: -	IATA: -
14.4	Packaging ADR/RID:	• •	IMDG: -	IATA: -
14.5	Environme ADR/RID: 1	ntal hazards no	IMDG Marine pollutant: no	IATA: no
14.6	Special pre	ecautions for user		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further information

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. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.