

Product Name

Safety Data Sheet
& Rules and Regulation

Revision Date:
Supersedes:

1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	BORIC ACID	Distributor:	Dr TRC Lab Private Limited
Synonyms:	BORACIC ACID	Address:	H-269,DSIIDC Industrial Area, North West Delhi,Delhi-110039
INCI Name:	BORIC ACID		
CAS Number:	10043-35-3	Website:	www.trckem.in
Formula:	BH3O3		
Product Form:	SOLID		
Product Use:	No Information Available		

2 HAZARDS IDENTIFICATION

GHS Classification:	Reproductive Toxicity Category 2
GHS Labelling:	Warning
GHS Hazard Pictogram:	
GHS Hazard Statements:	H361 Suspected of damaging fertility or unborn child
GHS Precautionary Statement:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P308+P313 IF exposed or concerned: Get medical advice/ attention. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.
Potential Health Hazards:	Eye Contact:-Can cause irritation, redness, and tearing. Ingestion:-Nausea, vomiting, diarrhea, and abdominal pain. Skin:-Mild irritation or redness with prolonged exposure. Inhalation:-Irritation of the respiratory tract
NFPA Rating(704):	No Information Available

3 COMPOSITION/INFORMATION ON INGREDIENTS

Composition	CAS No.	Weight %	Molecular Weight
Boric Acid (H ₃ BO ₃)	10043-35-3	≥99% (typically)	61.83 g/mol

4 FIRST AID MEASURES

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes
Inhalation:	If breathing difficulties occur, provide oxygen if trained to do so.
Skin:	Remove contaminated clothing and rinse skin thoroughly.
Ingestion:	Do NOT induce vomiting unless directed by medical personnel.

5 FIRE-FIGHTING MEASURES



SDS (Safety Data Sheet)

Suitable (and Unstable Extinguishing

Media:

Special protective equipment &

Precaution for Fire-fighters:

Special Hazards arising from the
Chemicals:

Water spray, dry chemical, carbon dioxide (CO₂), or foam can be used.

Protective Gear: Wear **self-contained breathing apparatus (SCBA)** and **full protective clothing** if exposure to decomposition fumes is possible.

Decomposition Hazard: At very high temperatures (>300°C / 572°F), boric acid decomposes into **boron trioxide (B₂O₃)**, which may react with water to form boric acid again.

6 ACCIDENTAL RELEASE MEASURES

Personal precaution, protective
equipment & emergency procedure:

Environment precautions:

Methods and material for containment
and cleaning up:

No action shall be taken without appropriate training or involving any personal risk. Follow precautions for safe handling described in this safety data sheet.

Avoid the spillage or runoff entering drains, sewers or watercourses

Avoid generation and spreading of dust. Avoid the spillage or runoff entering drains, sewers or watercourses

7 HANDLING & STORAGE

Precautions for safe handling:

Condition for safe storage, incl. any
incompatibilities:

Handle all packages and containers carefully to minimise spills. Wear protective clothing as described in Section 8 of this safety data sheet.

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from moisture.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component

Exposure Limit

Basis

Entity

N/A

N/A

N/A

N/A

Personal Protection

Eyes:

Safety goggles or **face shields** to prevent eye contact with dust.

Inhalation:

Use **local exhaust ventilation (LEV)** or general ventilation to minimize dust exposure.

Skin

Gloves (e.g., nitrile or latex) recommended for prolonged handling.

Ingestion:

Avoid ingestion by practicing proper hygiene

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Physical
State:

Solid Crystalline
solid

Odour:

Odourless

Color:

White

Molecular Weight:

61.83 g/mol

pH(1% sol. In water):

6.1 (0.1% aq)

Boiling Point:

Not available

Melting Point:

> 1000 °C

Vapour Pressure:

Not available

Density:

Not available

Evaporation Rate:

Not available

Flammability:

The product is
non-combustible

Upper /lower Explosive
limit:

No information available

Flash Point:

No information available

Specific Gravity:

No information available

Solubility:

No information available



SDS (Safety Data Sheet)

10 STABILITY AND REACTIVITY

Reactivity:	No test data specifically related to reactivity available for this product or its ingredients
Chemical Stability:	Stable at normal ambient temperatures and when used as recommended.
Hazardous Polymerization:	May be corrosive to metals.
Condition To Avoid:	Avoid excessive heat for prolonged periods of time.
Incompatible Material:	Avoid contact with the following materials: Strong reducing agents. Inorganic hydrides. Alkali metals
Hazardous Decomposition Products:	Does not decompose when used and stored as recommended. Heating may generate the following products: Boric acid (meta HBO ₂), boric oxide (B ₂ O ₃)

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	LD50 (Lethal Dose, 50%)
Skin:	May cause mild irritation but is not a strong irritant .
Eyes:	Causes moderate eye irritation upon contact.
Respiratory:	Not classified as a respiratory sensitizer.
Ingestion:	Symptoms of ingestion may include nausea, vomiting, diarrhea, abdominal pain, weakness, and dizziness .
Carcinogenicity:	Not classified as carcinogenic by IARC, OSHA, or NTP .
Teratogenicity:	Studies in animals suggest teratogenic effects at high doses.
Germ Cell Mutagenicity:	Boric acid is not classified as a mutagen
Embryotoxicity:	High-dose exposure in animal studies has shown reduced fetal growth .
Specific Target Organ Toxicity:	No Information Available
Reproductive Toxicity:	Classified as Reproductive Toxicity Category 1B (GHS Classification) .
Respiratory/Skin Sensitization:	Not classified as a respiratory sensitizer.

12 ECOLOGICAL INFORMATION

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Aquatic Vertebrate:	<i>Lepomis macrochirus</i> (Bluegill): 102 mg/L
Aquatic Invertebrate:	<i>Oncorhynchus mykiss</i> (Rainbow trout): 79.7 mg/L
Terrestrial:	High levels of boric acid in soil may be toxic to plants
Persistence and Degradability:	Not applicable (boric acid is an inorganic compound).
Bioaccumulative Potential:	Low
Mobility in Soil:	Water Solubility: Highly soluble (49.2 g/L at 25°C)
PBT and vPvB Assessment:	
Other Adverse Effects:	

13 DISPOSAL CONSIDERATIONS

Water Residue:	Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities
Product Containers:	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.



SDS (Safety Data Sheet)

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods.

14 TRANSPORT INFORMATION

TDG(Transport Of Dangerous Goods, India):	N/A
IMDG(International Maritime Dangerous Goods):	N/A
IATA(International Air Transport Association):	N/A
ICAO(International Civil Aviation Organization):	N/A
DOP(Dept. Of Transport, India):	N/A

15 REGULATORY INFORMATION

No regulatory Information Available

16 OTHER INFORMATION

Revision Date: March 2024

Compliance: This document has been prepared in accordance with the SDS requirements

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated.
However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.