


Material Safety Data Sheet	
BORIC ACID LR (GRANULAR)	VERSION : 03 DATE OF ISSUE :31-01-2022 SUPERSEDES : 02
Product Code : 12921	Page 1 of 8

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : BORIC ACID LR (GRANULAR)
Product code : 12921
Identification of the product : Boric acid
CAS No : 10043-35-3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3. Details of the supplier of the safety data sheet

Company identification : MOLYCHEM
 Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor,
 Mumbai – 400 002 (INDIA)
 Tel:+91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.
 Email : info@molychem.net
 Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile
 Co.,Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
 Not classified.

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s) : T : Toxic



R Phrase(s) : R60 :

May impair fertility.

R61 :

May cause harm to the unborn child.

S Phrase(s) : S53 :

Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Labelling Regulation EC 1272/2008 (CLP)

Not classified.

Hazard pictograms

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VERSION : 03
DATE OF ISSUE : 31-01-2022
SUPERSEDES : 02

Product Code : 12921

Page 2 of 8



2.3. Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

3.1 Substances

Formula	: H ₃ BO ₃
Molecular weight	: 61.83 g/mol
CAS-No.	: 10043-35-3
EC-No.	: 233-139-2
Index-No.	: 005-007-00-2

Component	Classification	Concentration
Boric acid	Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)	
CAS-No. 10043-35-3	Repr. 1B; H360FD	<= 100 %
EC-No. 233-139-2		
Index-No. 005-007-00-2		

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

4. First aid measures

4.1. Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). 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)

4.3. Indication of any immediate medical attention and special treatment needed

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BORIC ACID LR (GRANULAR)

VERSION : 03
DATE OF ISSUE : 31-01-2022
SUPERSEDES : 02

Product Code : 12921

Page 3 of 8

No data available

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Borane/boron oxides

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact.

Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection.

Wash hands and face after working with substance.

For precautions see section 2.2

7.2. Conditions for safe storage, including any incompatibilities

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Material Safety Data Sheet



BORIC ACID LR (GRANULAR)

VERSION : 03
DATE OF ISSUE : 31-01-2022
SUPERSEDES : 02

Product Code : 12921

Page 4 of 8

Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3. Specific end use(s)

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

8. Exposure controls/personal protection

8.1. Exposure controls

Hand protection : Protective gloves
Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | |
|--|--|
| a) Physical state | crystalline |
| b) Color | white |
| c) Odor | odorless |
| d) Melting point/
freezing point | Melting point/range: 160 °C - dec. |
| e) Initial boiling
point and boiling | No data available |
| f) Flammability (solid, gas) | The product is not flammable. - Flammability (solids) |
| g) Upper/lower
flammability or explosive limits | No data available |
| h) Flash point | Not applicable |
| i) Autoignition temperature | No data available |
| j) Decomposition temperature | No data available |
| k) pH | 5.1 at 1.8 g/l at 25 °C |
| l) Viscosity | Viscosity, kinematic: No data available
Viscosity, dynamic : No data available |
| m) Water solubility | 49.2 g/l at 20 °C - Regulation (EC) No. 440/2008, Annex, A.6-
completely soluble |
| n) Partition coefficient:
n- octanol/water | log Pow: -1,09 at 22 °C - Regulation (EC) No. 440/2008,
Annex, A.8 - Bioaccumulation is not expected. |
| o) Vapor pressure | < 0.1 hPa at 25 °C - Regulation (EC) No. 440/2008, Annex, A.4 |

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VERSION : 03
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SUPERSEDES : 02

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Page 5 of 8

- p) Density 1.49 g/cm³ at 23 °C
Relative density 1.49 at 23 °C - Regulation (EC) No. 440/2008, Annex, A.3
q) Relative vapor density
r) Particle characteristics No data available
s) Explosive properties No data available
t) Oxidizing properties none

9.2 Other safety information

Dissociation constant 8.94 at 20 °C
- OECD Test Guideline 112

10. Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

Risk of explosion with:
Acetic anhydride
Violent reactions possible with:
strong oxidising agents Bases

10.4. Conditions to avoid

Exposure to moisture. no information available

10.5. Incompatible materials

Potassium, Acid anhydrides

10.6. Hazardous decomposition products

In the event of fire: see section 5

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
Skin corrosion/irritation : Not classified pH: 3.8 - 4.8
Serious eye damage/irritation : Not classified pH: 3.8 - 4.8
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : May damage fertility or the unborn child.
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified


12. Ecological information

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Material Safety Data Sheet	
BORIC ACID LR (GRANULAR)	VERSION : 03 DATE OF ISSUE :31-01-2022 SUPERSEDES : 02
Product Code : 12921	Page 6 of 8

12.1. Toxicity

No additional information available

12.2. Persistence - degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

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

Product: : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Discharge into the environment must be avoided.

13. Disposal considerations

13.1. Waste treatment methods

No data available

14. Transport information

14.1. UN number

ADR/RID: -

IMDG: -

IATA: -

14.2. UN proper shipping name

ADR/RID:

Not dangerous goods

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

14.3. Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

Further information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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VERSION : 03
DATE OF ISSUE : 31-01-2022
SUPERSEDES : 02

Product Code : 12921

Page 7 of 8

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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

Authorisations and/or restrictions on use

REACH - Candidate List of Substances of Very : boric acid

High Concern for Authorisation (Article 59).

REACH - Restrictions on the manufacture, : boric acid
placing on the market and use of certain
dangerous substances, mixtures and articles
(Annex XVII)

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

16. Other information

Abbreviations and acronyms :

PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008
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End of document

Prepared by: MOLYCHEM (INDIA)


For questions contact: MOLYCHEM

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Material Safety Data Sheet	
BORIC ACID LR (GRANULAR)	VERSION : 03 DATE OF ISSUE :31-01-2022 SUPERSEDES : 02
Product Code : 12921	Page 8 of 8

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