

# Material Safety Data Sheet



**BORIC ACID LR**  
(Ortho Boric Acid)

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

Product Code : 12920

Page 1 of 8

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

### **1.1. Product identifier**

Trade name : BORIC ACID LR  
Product code : 12920  
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

### **11.3. 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](mailto: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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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 <sub>3</sub> BO <sub>3</sub>
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
<b>Boric acid</b>	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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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

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Page 4 of 8

## 7.2. Conditions for safe storage, including any incompatibilities

### 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:	log Pow: -1,09 at 22 °C - Regulation (EC) No. 440/2008,

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SUPERSEDES : 02

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Page 5 of 8

n- octanol/water	Annex, A.8 - Bioaccumulation is not expected.
o) Vapor pressure	< 0.1 hPa at 25 °C - Regulation (EC) No. 440/2008, Annex, A.4
p) Density	1.49 g/cm <sup>3</sup> 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

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Page 6 of 8

Aspiration hazard : Not classified

## **12. Ecological information**

### **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

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Product Code : 12920

Page 7 of 8

## Further information

Not classified as dangerous in the meaning of transport regulations.

## 15. Regulatory information

### 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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<b>Product Code : 12920</b>	<b>Page 8 of 8</b>

product. If the product is used as a component in another product, this MSDS information may not be applicable.

**End of document**

**Prepared by: MOLYCHEM (INDIA)**

**For questions contact: MOLYCHEM**

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