

Material Safety Data Sheet



BORIC ACID LR (GRANULAR) (Orthoboric Acid)

VERSION : 05
REVISION DATE : 14/06/2025
EFFECTIVE DATE : 16/06/2025

Product Code : 12921

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1.	Identification of the substance/mixture and of the company/undertaking	
1.1.	Product identifier	
	Trade name	: BORIC ACID LR (GRANULAR) (Orthoboric Acid)
	Product code	: 12921
	Identification of the product	: BORIC ACID LR (GRANULAR) (Orthoboric Acid)
	CAS No	: 10043-35-3
	EC No.	: 233-139-2
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 INDIA LLP Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . 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	
2.1.	Classification of the substance or mixture	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
	Reproductive toxicity, Category 1B	H360FD
	Full text of H- and EUH-statements: see section 16	
	Adverse physicochemical, human health and environmental effects	
	May damage fertility or the unborn child.	
2.2.	Label elements	
	Labelling according to Regulation (EC) No. 1272/2008 [CLP]	
	Hazard pictograms (CLP)	 GHS07

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	Signal word (CLP)	: Danger
	Hazard statements (CLP)	: H360FD - May damage fertility. May damage the unborn child.
	Precautionary statements (CLP)	: P201 - Obtain special instructions before use
		P202 - Do not handle until all safety precautions have been read and understood
		P280 - Wear protective clothing, eye protection, face protection, protective gloves
		P308+P313 - IF exposed or concerned: Get medical advice/attention.
		P405 - Store locked up.
		P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3.	Other hazards	
	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
	Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII	
3.	Composition/information on ingredients	
3.1.	Substances	
	Name	: BORIC ACID LR (GRANULAR) (Orthoboric Acid)
	CAS-No	: 10043-35-3
3.2.	Mixtures	
	Not applicable	
4.	First aid measures	
4.1.	Description of first aid measures	
	First-aid measures general	: IF exposed or concerned: Get medical advice/attention
	First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
	First-aid measures after skin contact	: Wash with plenty of water/.... Get medical

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		advice/attention. Wash skin with plenty of water.
	First-aid measures after eye contact	: Rinse immediately with plenty of water. Rinse eyes with water as a precaution.
	First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.
4.2.	Most important symptoms and effects, both acute and delayed	
	Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
	Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
	Symptoms/effects after eye contact	: None under normal conditions. Dust from this product may cause eye irritation.
	Symptoms/effects after ingestion	: None under normal conditions.
4.3.	Indication of any immediate medical attention and special treatment needed	
	Treat symptomatically.	
5.	Firefighting measures	
5.1.	Extinguishing media	
	Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
	Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2.	Special hazards arising from the substance or mixture	
	Fire hazard	: No fire hazard.
	Explosion hazard	: No direct explosion hazard.
	Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3	Advice for firefighters	
	Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

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	Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
6.	Accidental release measures	
6.1.	Personal precautions, protective equipment and emergency procedures	
	General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage
6.1.1.	For non-emergency personnel	
	Emergency procedures	: Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders	
	Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure \ controls/personal protection"
	Emergency procedures	: Evacuate unnecessary personnel.
6.2.	Environmental precautions	
	Avoid release to the environment.	
6.3.	Methods and material for containment and cleaning up	
	For containment	: Using a clean shovel, put the material in a dry container and cover without compressing it.
	Methods for cleaning up	: Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. Notify authorities if product enters sewers or public waters.
	Other information	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
	For further information refer to section 13.	

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7.	Handling and storage	
7.1.	Precautions for safe handling	
	Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
	Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid dust formation. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.
	Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures	: Keep in a cool, well-ventilated place away from heat.
	Storage conditions	: Store in original container. Store in a dry place. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
	Storage away from	: Open flame. Direct sunlight. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
	Recommended storage temperature	: Store at + 15 ⁰ C to +27 ⁰ C
7.3.	Specific end use(s)	
	No additional information available	
8.	Exposure controls/personal protection	
8.1.	Control parameters	
8.1.1.	National occupational exposure and biological limit values	
	No additional information available	
8.1.2.	Recommended monitoring procedures	

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	No additional information available	
8.1.3.	Air contaminants formed	
	No additional information available	
8.1.4.	DNEL and PNEC	
	No additional information available	
8.1.5.	Control banding	
	No additional information available	
8.2.	Exposure controls	
8.2.1.	Appropriate engineering controls	
	Ensure good ventilation of the work station.	
8.2.2.	Personal protection equipment	
	Eye protection	: Chemical goggles or safety glasses
	Hand protection	: Wear protective gloves
	Skin protection	: Wear suitable protective clothing
	Respiratory protection	: Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.
	Thermal hazards	: No additional information available
8.2.3	Environmental exposure controls	
	Avoid release to the environment	
9.	Physical and chemical properties	
9.1	Information on basic physical and chemical properties	
	Physical state	: Solid
	Appearance	: Crystalline powder or granules
	Molecular mass	: 61.83 g/mol
	Colour	: White
	Odour	: Odourless.
	Odour threshold	: Not available
	pH	: 3.8 – 4.8
	Melting point	: 170.9 °C
	Freezing point	: Not applicable
	Boiling point	: 300 °C
	Flash point	: Not applicable

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	Auto-ignition temperature	: Not applicable
	Decomposition temperature	: Not available
	Flammability (solid, gas)	: Non flammable.
	Vapour pressure	: < 0.1 hPa at 25 °C
	Relative vapour density at 20 °C	: Not applicable
	Relative density	: Not available
	Density	: 1.435 g/cm ³ at 20 °C
	Solubility	: Water: 5.7 g/100ml at 25 °C - Soluble in water Ethanol: Soluble Acetone: Very slightly soluble
	Partition coefficient n-octanol/water (Log Pow)	: Not available
	Viscosity, kinematic	: Not applicable
9.2.	Other information	
	No additional information available	
10.	Stability and reactivity	
10.1.	Reactivity	
	The product is non-reactive under normal conditions of use, storage and transport.	
10.2.	Chemical stability	
	Stable under normal conditions.	
10.3.	Possibility of hazardous reactions	
	No dangerous reactions known under normal conditions of use.	
10.4.	Conditions to avoid	
	Air contact. Direct sunlight.	
10.5.	Incompatible materials	
	No additional information available	
10.6	Hazardous decomposition products	
	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
11.	Toxicological information	
11.1.	Information on toxicological effects	
	Acute toxicity (oral)	: Not classified
	Acute toxicity (dermal)	: Not classified
	Acute toxicity (inhalation)	: Not classified

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	Skin corrosion/irritation	: Not classified
	Additional information	: Not classified
	Serious eye damage/irritation	: Not classified
	Respiratory or skin sensitisation	: Not classified
	Germ cell mutagenicity	: Not classified
	Carcinogenicity	: Not classified
	Reproductive toxicity	: May damage fertility. May damage the unborn child.
	STOT-single exposure	: Not classified
	STOT-repeated exposure	: Not classified
	Aspiration hazard	: Not classified
12.	Ecological information	
12.1.	Toxicity	
	Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
	Hazardous to the aquatic environment, short-term (acute)	Not classified
	Hazardous to the aquatic environment, long-term (chronic)	Not classified
12.2.	Persistence and degradability	
	No additional information available	
12.3.	Bioaccumulative potential	
	No additional information available	
12.4.	Mobility in soil	
	No additional information available	
12.5	Results of PBT and vPvB assessment	
	No additional information available	
12.6	Other adverse effects	
	No additional information available	
13.	Disposal considerations	
13.1.	Waste treatment methods	
	Regional waste regulation	: Disposal must be done according to official regulations.
	Waste treatment methods	: Dispose of contents/container in accordance with licensed

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		collector's sorting instructions.
	Product/Packaging disposal recommendations	: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
	Additional information	: Do not re-use empty containers.
14.	Transport information	
	In accordance with ADR / IMDG / IATA / ADN / RID	
14.1.	UN number	
	UN-No. (ADR)	: Not regulated
	UN-No. (IMDG)	: Not regulated
	UN-No. (IATA)	: Not regulated
	UN-No. (ADN)	: Not regulated
	UN-No. (RID)	: Not regulated
14.2.	UN proper shipping name	
	Proper Shipping Name (ADR)	: Not regulated
	Proper Shipping Name (IMDG)	: Not regulated
	Proper Shipping Name (IATA)	: Not regulated
	Proper Shipping Name (ADN)	: Not regulated
	Proper Shipping Name (RID)	: Not regulated
	Transport document description (ADR)	: Not regulated
	Transport document description (IMDG)	: Not regulated
	Transport document description (IATA)	: Not regulated
	Transport document description (ADN)	: Not regulated
	Transport document description (RID)	: Not regulated
14.3.	Transport hazard class(es)	
	ADR	
	Transport hazard class(es) (ADR)	: Not regulated
	IMDG	
	Transport hazard class(es) (IMDG)	: Not regulated
	IATA	
	Transport hazard class(es) (IATA)	: Not regulated
	ADN	
	Transport hazard class(es) (ADN)	: Not regulated
	RID	
	Transport hazard class(es) (RID)	: Not regulated

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14.4.	Packing group	
	Packing group (ADR)	: Not regulated
	Packing group (IMDG)	: Not regulated
	Packing group (IATA)	: Not regulated
	Packing group (ADN)	: Not regulated
	Packing group (RID)	: Not regulated
14.5.	Environmental hazards	
	Other information	: No supplementary information available
14.6.	Special precautions for user	
	Overland transport	
	Not regulated	
	Transport by sea	
	Not regulated	
	Air transport	
	Not regulated	
	Inland waterway transport	
	Not regulated	
	Rail transport	
	Not regulated	
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code	
	Not applicable	
15.	Regulatory information	
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU-Regulations	
	Not listed on REACH Annex XVII	
	Not listed on REACH Annex XIV (Authorisation List)	
	Listed on the REACH Candidate List: Boric acid	
	Not listed on the PIC list (Regulation EU 649/2012)	
	Not listed on the POP list (Regulation EU 2019/1021)	
	Not listed on the Ozone Depletion list (Regulation EU 1005/2009)	
	Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.	
	Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)	
	Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and	

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psychotropic substances)

15.1.2. National regulations

Germany

Water hazard class (WGK)

: WGK 1, Slightly hazardous to water
(Classification according to AwSV; ID No. 315)

Hazardous Incident Ordinance (12. BImSchV)

: Is not subject of the Hazardous Incident Ordinance
(12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen

: The substance is not listed

SZW-lijst van mutagene stoffen

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting

: The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding

: The substance is not listed

SZW-lijst van reprotoxische stoffen –
Vruchtbaarheid

: The substance is not listed

SZW-lijst van reprotoxische stoffen –
Ontwikkeling

: The substance is not listed

Denmark

Danish National Regulations

: Young people below the age of 18 years are not
allowed to use the product Pregnant/breastfeeding
women working with the product must not be in
direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

16. Other information

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand
COD	Chemical oxygen demand
COD	Chemical oxygen demand

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DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Safety Data Sheet (SDS), EU This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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