



MATERIAL SAFETY DATA SHEET

BUFFER SOLUTION pH - 9.00

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1	Product identifiers		
	Product name	:	Buffer solution (Boric acid/Potassium Chloride/Sodium Hydroxide) pH: 9.00 (25 °C)
	Brand	:	LABORT
	CAS-No.	:	--
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Industrial
1.3	Details of the supplier of the safety data sheet		
	LABORT FINE CHEM PVT LTD. 703-704 ICON BUSINESS CENTRE, OPP. CENTRAL MALL, NR. VALENTINE CINEMA, DUMAS ROAD, SURAT - 395007, (GUJARAT), INDIA. PH: 0091-261-2725761; 2725388 FAX: 0091-261-2725388 E MAIL: info@laboratorychemical.net WEBSITE: www.laboratorychemical.net		
1.4	Emergency telephone number		
	Emergency Phone #	:	091-261-2725388
SECTION 2: Hazards identification			
2.1	Classification of the substance or mixture		
	This mixture is not classified as dangerous according to European Union legislation.		
2.2	Label elements		
	Labelling (REGULATION (EC) No 1272/2008) Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.		
	Pictogram	:	None
	Signal word	:	None
	Hazard statement(s)		
	None		
	Precautionary statement(s)		
	None		
	Supplemental Hazard statements		

	None		
2.3	Other hazards		
	None		
SECTION 3: Composition/information on ingredients			
3.1	Substances		Not applicable
	Synonyms	:	--
	Formula	:	--
	Molecular weight	:	--
	CAS-No.	:	--
	EC-No.	:	--
3.2	Mixture:		
	Hazardous ingredients according to Regulation (EC) No 1272/2008		
	Component	Classification	Concentration
	Sodium Hydroxide (CAS-No.) 1310-73-2	Not classified	< 0.2%
	Potassium Chloride (CAS-No.) 7447-40-7	Not classified	<0.5%
	Boric Acid: CAS-No.: 10043-35-3	Reproductive toxicity, Category 1B, H360FD	>= 0.3 % - < 0.5 %
	Water (CAS No. 7732-18-5)	Not classified	>99%
SECTION 4: First aid measures			
4.1	Description of first aid measures		
	General advice: No data available		
	After inhalation: Fresh air.		
	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.		
	After eye contact: Rinse out with plenty of water. Remove contact lenses.		
	After swallowing: Make victim drink water (two glasses at most). Consult doctor if feeling unwell.		
4.2	Most important symptoms and effects, both acute and delayed The following applies to boron compounds in general: resorption is followed by nausea and vomiting, agitation, spasms, CNS disorders, cardiovascular disorders. drop in temperature, agitation, spasms, Diarrhoea, Nausea, Vomiting, Tiredness, ataxia (impaired locomotor coordination).		
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 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 Not combustible. Ambient fire may liberate hazardous vapors.
5.3	Advice for firefighters Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.
5.4	Further information No data available
SECTION 6: Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.
6.2	Environmental precautions No special environmental precautions required.
6.3	Methods and materials for containment and cleaning up Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralizing material (e.g. Chemisorb® OH ⁻ , Merck Art. No. 101596). Dispose of properly. Clean up affected area.
6.4	Reference to other sections Indications about waste treatment see section 13.
SECTION 7: Handling and storage	
7.1	Precautions for safe handling Advice on safe handling Observe label precautions. Hygiene measures Change contaminated clothing. Wash hands after working with substance.
7.2	Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Recommended storage temperature: Below 20°C
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
	Contains no substances with occupational exposure limit values.
8.2	Exposure control
	<p>Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</p> <p>Personal protective equipment.</p> <p>Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).</p> <p>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.</p> <p>The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.</p> <p>Body Protection Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p> <p>Respiratory protection</p>

	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
	Control of environmental exposure Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical properties	
	Appearance Form	Form: Liquid
	Colour	Colorless
	Odour	Odorless
	Odour Threshold	Not applicable
	pH	9.0 at 25 °C
	Melting point	No data available
	Boiling Point/boiling range	100 °C at 1,013 hPa
	Flash point	No data available
	Evaporation rate	No data available
	Flammability (solid, gas)	No data available
	Upper/lower flammability or explosive limits	No data available
	Vapor pressure	No data available
	Relative Vapor density	No data available
	Density	1.00 g/cm ³ at 20 °C
	Relative Density	No data available
	Water solubility	at 20 °C soluble
	Partition coefficient: n-octanol/water	No data available
	Auto-ignition temperature	No data available
	Decomposition temperature	No data available
	Viscosity, dynamic	No data available
	Explosive properties	Not classified as explosive.
	Oxidizing properties	None
9.2	Other safety information	None

SECTION 10: Stability and reactivity

10.1	Reactivity See section 10.3
10.2	Chemical stability The product is chemically stable under standard ambient conditions (room temperature)

10.3	Possibility of hazardous reactions No data available
10.4	Conditions to avoid No data available
10.5	Incompatible materials Strong acids and bases
10.6	Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Borane/boron oxides, Sodium oxides 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 No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity 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 Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
11.2	Further information
	No data available
SECTION 12: Ecological information	
12.1	Toxicity No data available
12.2	Persistence and degradability No data available

12.3	Bioaccumulative potential No data available		
12.4	Mobility in soil No data available		
12.5	Results of PBT and vPvB assessment Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.		
12.6	Other adverse effects No data available		
SECTION 13: Disposal considerations			
13.1	Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Contaminated packaging Dispose of as unused product.		
SECTION 14: Transport information			
14.1	UN number		
	ADR/RID: Not classified as dangerous in the meaning of transport regulations.	IMDG: Not classified as dangerous in the meaning of transport regulations.	IATA: Not classified as dangerous in the meaning of transport regulations.
14.2	UN proper shipping name		
	ADR/RID: -- IMDG: -- IATA: --		
14.3	Transport hazard class(es)		
	ADR/RID: --	IMDG: --	IATA: --
14.4	Packaging group		
	ADR/RID: --	IMDG: --	IATA: --
14.5	Environmental hazards		
	ADR/RID: --	IMDG: --	IATA: --
14.6	Special precautions for user		
	No data available		
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. International Chemical Weapons Convention : Neither banned nor restricted (CWC) Schedules of Toxic Chemicals and Precursors Restrictions on the marketing and use of certain : Neither banned nor restricted dangerous substances and preparations Regulation (EC) No 649/2012 of the European : Neither banned nor restricted Parliament and the Council concerning the		

	<p>export and import of dangerous chemicals</p> <p>Candidate List of Substances of Very High Concern for Authorisation : Neither banned nor restricted</p>
15.2	<p>Chemical safety assessment</p> <p>For this product a chemical safety assessment was not carried out.</p>
SECTION 16: Other information	
	<p>Further information</p> <p>LABORT FINE CHEM PVT LTD. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. LABORT FINE CHEM PVT LTD. Makes no representations or warranties, either express or implied, including without limitation any warranties or merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, LABORT FINE CHEM PVT LTD. will not be responsible for damages resulting from use of or reliance upon this information.</p> <p>Revised on: 09/07/20</p> <p>Revision: 01</p>