MATERIAL SAFETY DATA SHEET

D-Mannitol

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1	**Product identifiers**		
	Product name	:	D-Mannitol
	Brand	:	LABORT
	CAS-No.	:	69-65-8
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**		
	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**		
	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.		
2.2	**Label elements**		
	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.		
2.3	**Other hazards**: None		
SECTION 3: Composition/information on ingredients			
3.1	**Substances**		
	Synonyms	:	Mannite
	Formula	:	C6H14O6
	Molecular weight	:	182,17 g/mol
	CAS-No.	:	69-65-8

	EC-No.	:	200-711-8
	No components need to be disclosed according to the applicable regulations.		
SECTION 4: First aid measures			
4.1	**Description of first aid measures**		
	If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. **In case of skin contact** Wash off with soap and plenty of water. **In case of eye contact** Flush eyes with water as a precaution. **If swallowed** Never give anything by mouth to an unconscious person. Rinse mouth with water.		
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) and/or in section 11		
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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
5.2	**Special hazards arising from the substance or mixture** Carbon oxides		
5.3	**Advice for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.		
5.4	**Further information** No data available		
SECTION 6: Accidental release measures			
6.1	**Personal precautions, protective equipment and emergency procedures** Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.		
6.2	**Environmental precautions** Do not let product enter drains.		
6.3	**Methods and materials for containment and cleaning up** Sweep up and shovel. Keep in suitable, closed containers for disposal.		
6.4	**Reference to other sections** For disposal see section 13.		
SECTION 7: Handling and storage			
7.1	**Precautions for safe handling** Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection. For precautions see section 2.2.		
7.2	**Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 25°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**		
	Components with workplace control parameters		

8.2	**Exposure control**
	Appropriate engineering controls General industrial hygiene practice.
	Personal protective equipment
	Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). **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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min **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. **Respiratory protection** 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: powder Colour: white
	Odour	No data available
	Odour Threshold	No data available
	pH	5,0 - 6,5 at 182 g/l at 25 °C
	Melting point/freezing point	Melting point/range: 167 - 170 °C - lit.
	Initial boiling point and boiling range	No data available
	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
	Vapour pressure	No data available

	Vapour density	No data available
	Relative density	No data available
	Water solubility	182 g/l at 20 °C - completely soluble
	Partition coefficient: noctanol/water	No data available
	Auto-ignition temperature	No data available
	Decomposition temperature	No data available
	Viscosity	No data available
	Explosive properties	No data available
	Oxidizing properties	No data available
9.2	**Other safety information**	
	No data available	

SECTION 10: Stability and reactivity

10.1	**Reactivity** No data available
10.2	**Chemical stability** Stable under recommended storage conditions.
10.3	**Possibility of hazardous reactions** No data available
10.4	**Conditions to avoid** No data available
10.5	**Incompatible materials** Strong oxidizing agents
10.6	**Hazardous decomposition products** Hazardous decomposition products formed under fire conditions. - Carbon 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** LD50 Oral - Rat - 13.500 mg/kg **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: OP2060000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.		
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** PBT/vPvB assessment not available as chemical safety assessment not required/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. **Contaminated packaging** Dispose of as unused product.		
SECTION 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		
SECTION 15: Regulatory information			
15.1	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Neither banned nor restricted Restrictions on the marketing and use of certain dangerous substances and preparations : Neither banned nor restricted		

	Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Neither banned nor restricted Candidate List of Substances of Very High Concern for Authorisation : Neither banned nor restricted
15.2	**Chemical safety assessment** For this product a chemical safety assessment was not carried out
SECTION 16: Other information	
	Further information 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. Revised on: 09/07/20 Revision: 01