MATERIAL SAFETY DATA SHEET

AMMONIUM DIHYDROGEN PHOSPHATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1	**Product identifiers**		
	Product name	:	Ammonium dihydrogen Phosphate
	Brand	:	LABORT
	CAS-No.	:	7722-76-1
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**		
	Classification according to Regulation (EC) No 1272/2008 This substance is not classified as dangerous according to European Union legislation.		
2.2	**Label elements**		
	Labelling according Regulation (EC) No 1272/2008 Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.		
	Pictogram	:	--
	Signal word	:	--
	Hazard statement(s)		
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	Precautionary statement(s)		
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	Supplemental Hazard statements			
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2.3	**Other hazards**			
	Note known			
SECTION 3: Composition/information on ingredients				
3.1	**Substances**			
	Synonyms	:	Mono-Ammonium Phosphate, Ammonium phosphate monobasic	
	Formula	:	$(NH_4)H_2PO_4$	
	Molecular weight	:	115.02 g/mol	
	CAS-No.	:	7727-54-0	
	EC-No.	:	231-764-5	
	Hazardous ingredients according to Regulation (EC) No 1272/2008			
	Component	Classification		Concentration
	Mono-Ammonium Phosphate			
	No disclosure requirement according to Regulation (EC) No. 1907/2006			
3.2	**Mixture**	Not applicable		
SECTION 4: First aid measures				
4.1	**Description of first aid measures**			
	General advice Consult a physician. Show this safety data sheet to the doctor in attendance.			
	After inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration			
	In case of skin contact Take off immediately all contaminated clothing. Wash off with soap and plenty of water.			
	After eye contact: rinse out with plenty of water.			
	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** Stomach/intestinal disorders The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting and diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis.			
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. **Suitable 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 vapours.			

	Fire may cause evolution of: Oxides of phosphorus, nitrogen oxides		
5.3	**Advice for firefighters** **Special protective equipment for fire fighters** In the event of fire, wear self-contained breathing apparatus.		
5.4	**Further information** Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.		
SECTION 6: Accidental release measures			
6.1	**Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.		
6.2	**Environmental precautions** Do not empty into drains.		
6.3	**Methods and materials for containment and cleaning up** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.		
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. Dry. Recommended storage temperature: 5 - 30°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**		
	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 Full contact	**:**	Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min
	Skin protection 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
SECTION 9: Physical and chemical properties			
9.1	**Information on basic physical and chemical properties**		
	Appearance Form		Form: Solid

	Colour	Colourless
	Odour	Odourless
	Odour Threshold	Not applicable
	pH	3.8 - 4.4 at 50 g/l at 20 °C
	Melting point	190 °C
	Boiling point / Boiling range	Not applicable, (decomposition)
	Flash point	does not flash
	Evaporation rate	No data available
	Flammability (solid, gas)	No data available
	Upper/lower flammability or explosive limits	Not applicable
	Vapour pressure	0.066 hPa at 125 °C
	Relative Vapour density	No data available
	Density	1.80 g/cm3 at 20 °C
	Relative Density	No data available
	Water solubility	368 g/l at 20 °C
	Partition coefficient: n-octanol/water	No data available
	Auto-ignition temperature	No data available
	Decomposition temperature	> 190 °C
	Viscosity, dynamic	No data available
	Explosive properties	No data available
	Oxidizing properties	None
9.2	**Other safety information**	
	Bulk density	ca.800 - 1,100 kg/m3
	Ignition temperature	Not combustible

SECTION 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** No data available
10.4	**Conditions to avoid** Strong heating (decomposition).
10.5	**Incompatible materials** Strong oxidizing agents, Strong acids, sodium hypochlorite
10.6	**Hazardous decomposition products** Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx),

	Oxides of phosphorus
SECTION 11: Toxicological information	
11.1	**Acute oral toxicity:** LD50 Oral - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 425) LC50 Inhalation - Rat - male and female - 4 h - > 5 mg/l (OECD Test Guideline 403) Remarks: (in analogy to similar products) LD50 Dermal - Rat - male and female - > 5.000 mg/kg (OECD Test Guideline 402) Skin corrosion/irritation Skin - Rabbit Result: No skin irritation - 24 h Serious eye damage/eye irritation Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Respiratory or skin sensitisation Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429) Germ cell mutagenicity In vitro mammalian cell gene mutation test mouse lymphoma cells Result: negative 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 Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - 250 mg/kg (in analogy to similar products) RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
11.2	**Further information**
	After uptake of large quantities: Stomach/intestinal disorders, disturbed electrolyte balance., drop in blood pressure

	The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, and haemolysis. However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.		
SECTION 12: Ecological information			
12.1	**Toxicity**		
	Toxicity to fish - static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 85,9 mg/l - 96 h (OECD Test Guideline 203) Toxicity to algae - static test ErC50 - Pseudokirchneriella subcapitata - > 97,1 mg/l - 72 h (OECD Test Guideline 201)		
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 does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.		
12.6	**Other adverse effects** Additional ecological information - Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of drinking- water supplies.		
SECTION 13: Disposal considerations			
13.1	Waste treatment methods - Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.		
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 Marine pollutant: --	IATA: --

14.6	**Special precautions for user** No data available
14.7	**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not relevant
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.
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: 10/07/2020 Revision: 01