



## MATERIAL SAFETY DATA SHEET

### ACETONITRILE

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
<b>1.1</b>	<b>Product identifiers</b>		
	Product name	:	Acetonitrile
	Brand	:	LABORT
	CAS-No.	:	75-05-8
<b>1.2</b>	<b>Relevant identified uses of the substance or mixture and uses advised against</b>		
	Identified uses	:	Laboratory chemicals, Industrial
<b>1.3</b>	<b>Details of the supplier of the safety data sheet</b>		
	<b>LABORT FINE CHEM PVT LTD.</b> 703-704 ICON BUSINESS CENTRE, OPP. CENTRAL MALL, NR. VALENTINE CINEMA, DUMAS ROAD, SURAT - 395007, (GUJARAT), INDIA.  <b>PH:</b> 0091-261-2725761; 2725388 <b>FAX:</b> 0091-261-2725388  <b>E MAIL:</b> <a href="mailto:info@laboratorychemical.net">info@laboratorychemical.net</a> <b>WEBSITE:</b> <a href="http://www.laboratorychemical.net">www.laboratorychemical.net</a>		
<b>1.4</b>	<b>Emergency telephone number</b>		
	Emergency Phone #	:	<b>091-261-2725388</b>
SECTION 2: Hazards identification			
<b>2.1</b>	<b>Classification of the substance or mixture</b>		
	<b>Classification according to Regulation (EC) No 1272/2008</b> Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312 Eye irritation (Category 2), H319		
<b>2.2</b>	<b>Label elements</b>		
	<b>Labelling according Regulation (EC) No 1272/2008</b>		
	Pictogram	:	
	Signal word	:	Danger
	<b>Hazard statement(s)</b>		

	H225 Highly flammable liquid and vapour. H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled. H319 Causes serious eye irritation.		
	Precautionary statement(s)		
	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/ protective clothing. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	Supplemental Hazard statements		
	None		
2.3	Other hazards		
	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.		
SECTION 3: Composition/information on ingredients			
3.1	Substances		
	Synonyms	:	Methyl cyanide ACN
	Formula	:	C2H3N
	Molecular weight	:	41,05 g/mol
	CAS-No.	:	75-05-8
	EC-No.	:	200-835-2
	Hazardous ingredients according to Regulation (EC) No 1272/2008		
	Component	Classification	Concentration
	Acetonitrile		
	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2; H225, H302, H332, H312, H319 For the full text of the H-Statements mentioned in this Section, see Section 16.		<= 100 %
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.		
	If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.		
	In case of skin contact Wash off with soap and plenty of water. Consult a physician.		

	<b>In case of eye contact</b> Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
	<b>If swallowed</b> Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2	<b>Most important symptoms and effects, both acute and delayed</b> The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3	<b>Indication of any immediate medical attention and special treatment needed</b> No data available
<b>SECTION 5: Firefighting measures</b>	
5.1	<b>Extinguishing media</b> <b>Suitable extinguishing media</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2	<b>Special hazards arising from the substance or mixture</b> Carbon oxides, Nitrogen oxides (NOx) Combustible.
5.3	<b>Advice for fire fighters</b> Wear self-contained breathing apparatus for fire fighting if necessary.
5.4	<b>Further information</b> Use water spray to cool unopened containers.
<b>SECTION 6: Accidental release measures</b>	
6.1	<b>Personal precautions, protective equipment and emergency procedures</b> Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.
6.2	<b>Environmental precautions</b> Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
6.3	<b>Methods and materials for containment and cleaning up</b> Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13).
6.4	<b>Reference to other sections</b> For disposal see section 13.
<b>SECTION 7: Handling and storage</b>	
7.1	<b>Precautions for safe handling</b> Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Filled under nitrogen. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see section 2.2.
7.2	<b>Conditions for safe storage, including any incompatibilities</b> Store at ambient temperature and away from direct sun light. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: Ambient
7.3	<b>Specific end use(s)</b> Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
<b>SECTION 8: Exposure controls/personal protection</b>	
8.1	<b>Control parameters</b>
	Contains no substances with occupational exposure limit values.
8.2	<b>Exposure control</b> <b>Appropriate engineering controls</b> Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

	Eye/face protection	:	Wear protective face shield and goggles.
	Hand Protection Full contact	:	Glove material: butyl-rubber Glove thickness: 0.7 mm Break through time: 480 min
	Hand Protection Splash contact	:	Glove material: polychloroprene Glove thickness: 0.65 mm Break through time: 10 min
	Respiratory protection	:	required when vapours/aerosols are generated. Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds. The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

## SECTION 9: Physical and chemical properties

<b>9.1</b>	<b>Information on basic physical and chemical properties</b>	
	Appearance Form	Form: clear, liquid
	Colour	Colourless
	Odour	ether-like
	Odour Threshold	39.8 ppm
	pH	No data available
	Melting point/freezing point	Melting point/range: -45.7 °C
	Initial boiling point and boiling range	81 - 82 °C
	Flash point	2 °C - closed cup
	Evaporation rate	No data available
	Flammability (solid, gas)	No data available
	Upper/lower flammability or explosive limits	Upper explosion limit: 17 %(V) Lower explosion limit: 3 %(V)
	Vapour pressure	98,64 hPa at 20 °C
	Vapour density	1,42 - (Air = 1.0)
	Relative density	0,786 g/mL at 25 °C
	Water solubility	1.000 g/l at 25 °C completely soluble
	Partition coefficient: noctanol/water	log Pow: -0.34 at 25 °C - Bioaccumulation is not expected.
	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
<b>9.2</b>	<b>Other safety information</b>	

	Ignition temperature	524°C
SECTION 10: Stability and reactivity		
10.1	<b>Reactivity</b> Vapours may form explosive mixture with air.	
10.2	<b>Chemical stability</b> Stable under recommended storage conditions.	
10.3	<b>Possibility of hazardous reactions</b> Violent reactions possible with: Strong bases, strong reducing agents Risk of explosion with: nitrates, perchlorates, perchloric acid conc. sulfuric acid, with, Heat Risk of ignition or formation of inflammable gases or vapours with: Oxidizing agents, Nitric acid, Nitrogen dioxide, with, Catalyst Generates dangerous gases or fumes in contact with: Acids	
10.4	<b>Conditions to avoid</b> Heat, flames and sparks. Extremes of temperature and direct sunlight.	
10.5	<b>Incompatible materials</b> Rubber, Various plastics	
10.6	<b>Hazardous decomposition products</b> Other decomposition products - No data available	
SECTION 11: Toxicological information		
11.1	<b>Acute oral toxicity:</b> LD50 Mouse: 617 mg/kg OECD Test Guideline 401 Symptoms: Nausea, Vomiting <b>Acute inhalation toxicity</b> Symptoms: Possible damages:, mucosal irritations <b>Acute dermal toxicity</b> This information is not available. <b>Skin corrosion/irritation:</b> No Skin corrosion <b>Serious eye damage/eye irritation:</b> Eyes - Rabbit Result: Eye irritation <b>Sensitization –</b> Negative <b>Carcinogenicity:</b> Not classifiable as carcinogenic compound. <b>Reproductive toxicity</b> Animal testing did not show any effects on fertility. <b>Specific target organ toxicity - single exposure</b> The substance or mixture is not classified as specific target organ toxicant, single exposure. <b>Specific target organ toxicity - repeated exposure</b> The substance or mixture is not classified as specific target organ toxicant, repeated exposure. <b>Aspiration hazard</b> No aspiration toxicity classification <b>Additional Information</b> After absorption: Systemic effects: Shortness of breath, Headache, Dizziness, Nausea, Convulsions, respiratory arrest, cardiac arrest, Unconsciousness Symptoms may be delayed. The following applies to cyanogen compounds/ nitriles in general: utmost caution! Release of hydrocyanic acid is possible - blockade of cellular respiration. Cardiovascular disorders, dyspnoea, unconsciousness. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice. .	
SECTION 12: Ecological information		
12.1	<b>Toxicity</b>	

	Toxicity to fish semi-static test LC50 <i>Oryzias latipes</i> (Orange-red killifish): > 100 mg/l; 96 h Toxicity to daphnia and other aquatic invertebrates semi-static test EC50 <i>Daphnia magna</i> (Water flea): > 1,000 mg/l; 48 h semi-static test NOEC <i>Daphnia magna</i> (Water flea): 960 mg/l; 21 d Toxicity to algae static test EC50 <i>Pseudokirchneriella subcapitata</i> (green algae): > 1,000 mg/l; 72 h OECD Test Guideline 201		
12.2	<b>Persistence and degradability</b> Biodegradability Result: 70 % -21d - Readily biodegradable. (OECD Test Guideline 310)		
12.3	<b>Bioaccumulative potential</b> No bioaccumulation is to be expected (log Pow -3.4).		
12.4	<b>Mobility in soil</b> Distribution among environmental compartments Adsorption/Soil log Koc: 1.21 Mobile in soils.		
12.5	<b>Results of PBT and vPvB assessment</b> 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	<b>Other adverse effects</b> Stability in water DT50 > 9,999 d at pH: 7 (calculated) Hydrolyses slowly. Additional ecological information Biological effects: Hazard for drinking water supplies. Discharge into the environment must be avoided.		
SECTION 13: Disposal considerations			
13.1	<b>Product and packing:</b> Dispose in hazards or special waste collection point, as per national and international regulations.		
SECTION 14: Transport information			
14.1	UN number		
	ADR/RID: 1648	IMDG: 1648	IATA: 1648
14.2	UN proper shipping name		
	ADR/RID: ACETONITRILE IMDG: ACETONITRILE IATA: Acetonitrile		
14.3	Transport hazard class(es)		
	ADR/RID: 3	IMDG: 3	IATA: 3
14.4	Packaging group		
	ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards		
	ADR/RID: No	IMDG Marine pollutant: No	IATA: No
14.6	<b>Special precautions for user</b> No data available		
SECTION 15: Regulatory information			
15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.2	<b>Chemical safety assessment</b> No data available		
SECTION 16: Other information			
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Revised on: 09/07/2020

Revision: 01