

# MATERIAL SAFETY DATA SHEET ACETIC ACID

SECTION	SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1	Product identifiers			
	Product name	:	Acetic acid	
	Brand	:	LABORT	
	CAS-No.	:	64-19-7	
1.2	Relevant identified uses of t	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 # : <b>091-261-2725388</b>			
SECTION	2: Hazards identification			
2.1	Classification of the substar	nce o	or mixture	
	Classification according to Regulation (EC) No 1272/2008 Flammable liquids (Category 3), H226 Skin corrosion (Sub-category 1B), H314 Serious eye damage (Category 1), H318			
2.2	Label elements			
	Labelling according Regulation (EC) No 1272/2008			
	Pictogram	:		
	Signal word	:	Danger	
	Hazard statement(s)			
	H226 Flammable liquid and vapour. H314 Causes severe skin burns and eye damage.			
	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/ eye protection/ face protection. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.			
	Supplemental Hazard staten	nents	S	
	none			
2.3	Other hazards			
			o components considered to be either per very bioaccumulative (vPvB) at levels of 0	
SECTION	3: Composition/information of	on in	gredients	
3.1	Substances			
	Synonyms	<u> </u>	Glacial Acetic acid	
	Formula	:	C2H4O2	
	Molecular weight	:	60.05 g/mol	
	CAS-No.	:	64-19-7	
	EC-No.	••	200-580-7	
	Hazardous ingredients acco	rdin	g to Regulation (EC) No 1272/2008	
	Component		Classification	Concentration
	Acetic acid		Flam. Liq. 3; Skin Corr. 1A; Eye Dam. 1; H226, H314, H318 Concentration limits: >= 90 %: Skin Corr. 1A, H314; 25 - < 90 %: Skin Corr. 1B, H314; 10 - < 25 %: Skin Irrit. 2, H315; 10 - < 25 %: Eye Irrit. 2, H319; 10 - < 25 %: Eye Irrit. 2, H319; 10 - < 25 %: Skin Irrit. 2, H315; 25 - < 90 %: Skin Corr. 1B, H314; >= 90 %: Skin Corr. 1A, H314; >= 90 %: Flam. Liq. 3, H226;	<= 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.  In case of skin contact Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a			
Page 2 of	physician.  In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.			

	If swallowed  Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.  Consult a physician			
	Most important symptoms and effects, both acute and delayed			
4.2	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			
SECTIO	N 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 Advice for firefighters			
5.3	Wear self-contained breathing apparatus for firefighting if necessary.			
5.4	Further information Use water spray to cool unopened containers.			
SECTIO	N 6: Accidental release measures			
	Personal precautions, protective equipment and emergency procedures			
	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.			
6.1	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.			
	Environmental precautions			
6.2	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.			
	Methods and materials for containment and cleaning up			
6.3	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).  Reference to other sections			
6.4	For disposal see section 13.			
SECTIO	N 7: Handling and storage			
	Precautions for safe handling			
7.1	Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.			
	For precautions see section 2.2.			
	Conditions for safe storage, including any incompatibilities			
7.2	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. Store in cool 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			
SECTIO	N 8: Exposure controls/personal protection			
8.1	Control parameters			
	Components with workplace control parameters			
8.2	Exposure control			
	Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			
	Personal protective equipment			
	Eye/face protection			

Tightly fitting safety goggles. Faceshield (8-inch minimum). 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 Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact

Material: butyl-rubber

Minimum layer thickness: 0,6 mm Break through time: 32 min

Splash contact

Material: Nature latex/chloroprene Minimum layer thickness: 0,6 mm Break through time: 41 min

#### **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. 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	Colourless	
	Odour	No data available	
	Odour Threshold	No data available	
	pH	2,4 at 60,05 g/l	
	Melting point/freezing point	16.2°C	
	Initial boiling point and boiling range	117 - 118°C	
	Flash point	40°C - closed cup	
	Evaporation rate	No data available	
	Flammability (solid, gas)	No data available	
	Upper/lower flammability or explosive limits	Upper explosion limit: 19.9%(V) Lower explosion limit: 4%(V)	

Vapour pressure 173.3 hPa at 50°C  Vapour density No data available  Relative density 1.049 g/mL at 25 °C  Water solubility completely miscible  Partition coefficient: noctano/water lago pow0.17  Auto-ignition temperature 485°C  Decomposition temperature No data available  Viscosity No data available  Explosive properties No data available  Explosive properties No data available  Oxidizing properties No data available  Surface tension 28,8 mN/m at 10°C  SECTION 10: Stability and reactivity  Reactivity No data available  10.2 Chemical stability Stable under recommended storage conditions.  No data available  10.4 Chemical stability Stable under recommended storage conditions.  No data available  Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, for example potassity m permanganate, Amines, Alcohols, Nitric acid  10.6 Hazardous decomposition products  Acute toxicity LDSo Oral - Rat - 3.310 mg/kg Remarks: (RTECS) Sci Information on toxicological effects Acute toxicity LDSo Oral - Rat - 3.310 mg/kg Remarks: (RTECS) Skin corrosion/irritation Skin - Rabbit Result: Causes burns 4 h (OECD Test Guideline 404) Remarks: (UCLID) Serious eye damage/eye irritation Eyes - Rabbit Result: Causes burns 4 h (OECD Test Guideline 405) Remarks: (UCLID) Serious eye damage, Respiratory or skin esnification					
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Serious eye damage/eye irritation  Eyes - Rabbit  Result: Causes burns 4 h  (OECD Test Guideline 405)  Remarks: (IUCLID)  Causes serious eye damage.					
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Causes serious eye damage.					

No data available

#### Germ cell mutagenicity

Ames test

Salmonella typhimurium

Result: negative

Mutagenicity (mammal cell test): chromosome aberration.

Chinese hamster ovary cells

Result: negative

Mutagenicity (micronucleus test)
Rat - male and female - Bone marrow

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**

RTECS: AF1225000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Ingestion or inhalation of concentrated acetic acid causes damage to tissues of the respiratory and digestive tracts. Symptoms include: hematemesis, bloody diarrhea, edema and/or perforation of the esophagus and pylorus, pancreatitis, hematuria, anuria, uremia, albuminuria, hemolysis, convulsions, bronchitis, pulmonary edema, pneumonia, cardiovascular collapse, shock, and death. Direct contact or exposure to high concentrations of vapor with skin or eyes can cause: erythema, blisters, tissue destruction with slow healing, skin blackening, hyperkeratosis, fissures, corneal erosion, opacification, iritis, conjunctivitis, and possible blindness.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **SECTION 12: Ecological information**

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12.1	Toxicity		
	Toxicity to fish	semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 1.000 mg/l - 96 h (OECD Test Guideline 203)	
	Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 1.000 mg/l - 48 h (OECD Test Guideline 202)	
	Toxicity to algae	static test EC50 - Skeletonema costatum - > 1.000 mg/l - 72 h (ISO 10253)	
	Toxicity to bacteria	EC5 - Pseudomonas putida - 2.850 mg/l - 16 h Remarks: neutral(maximum permissible toxic concentration)(Lit.) microtox test EC50 - Photobacterium phosphoreum - 11 mg/l – 15 min Remarks: (IUCLID)	
12.2	Persistence and degradability		
	Biodegradability	Result: 99 % - Readily biodegradable. (OECD Test Guideline 301D) Remarks: (HSDB) Result: 95 % - Readily eliminated from water (OECD Test Guideline 302B)	

	Biochemical Oxygen Demand (BOD)	880 mg/g Remarks: (Lit.)			
	Ratio BOD/ThBOD	76 % Remarks: (IUCLID)			
12.3	Bioaccumulative potential No data available.				
12.4	Mobility in soil No data available				
	Results of PBT and vPvB as	sessment			
12.5	toxic (PBT), or very persistent		to be either persistent, bioaccumulative and vB) at levels of 0.1% or higher.		
12.6	Other adverse effects No data available				
SECTION	13: Disposal considerations				
13.1	Waste 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	ECTION 14: Transport information				
14.1	UN number				
	ADR/RID: 2789	IMDG: 2789	IATA: 2789		
14.2	UN proper shipping name				
	ADR/RID: Acetic acid -Glacial IMDG: Acetic acid -Glacial IATA: Acetic acid -Glacial				
14.3	Transport hazard class(es)				
	ADR/RID: 8 (3)	IMDG: 8 (3)	IATA: 8 (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	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.				
15.2	Chemical safety assessment No data available				
SECTION	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				

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