



SDS (Safety Data Sheet)

Lactic Acid

Safety Data Sheet
& Rules and Regulation

Revision Date:
Supersedes:

1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Lactic Acid	Distributor:	Dr TRC Lab Private Limited
Synonyms:	2-Hydroxypropanoic acid, Alpha-hydroxypropionic acid	Address:	H-269,DSIIDC Industrial Area, North West Delhi,Delhi-110039
INCI Name:	Lactic Acid	Website:	www.trckem.in
CAS Number:	50-21-5		
Product Form:	Liquid		
Product Use:	Used in cosmetics, food preservation, pharmaceuticals, and industrial processes.		

2 HAZARDS IDENTIFICATION

GHS Classification:	Skin Corrosion/Irritation (Category 2), Serious Eye Damage/Eye Irritation (Category 1)
GHS Labelling:	H315, H318
GHS Hazard Pictogram:	Corrosion
GHS Hazard Statements:	H315 - Causes skin irritation; H318 - Causes serious eye damage.
GHS Precautionary Statement:	P264 - Wash hands thoroughly after handling; P280 - Wear protective gloves/eye protection; P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Potential Health Hazards:	Causes skin and eye irritation, respiratory issues upon inhalation.
NFPA Rating(704):	a. Health: 2 b. Flammability: 1 c. Reactivity: 0 d. Specific Hazard: None

3 COMPOSITION/INFORMATION ON INGREDIENTS

Composition	CAS No.	Weight %	Molecular Weight
Lactic Acid (100%)	50-21-5	100%	90.08 g/mol

4 FIRST AID MEASURES

Eyes:	Rinse immediately with water for at least 15 minutes and seek medical attention.
Inhalation:	Move to fresh air and seek medical help if symptoms persist.
Skin:	Wash with soap and water. Seek medical attention if irritation persists
Ingestion:	Do not induce vomiting. Drink plenty of water and seek medical help immediately.

5 FIRE-FIGHTING MEASURES



SDS (Safety Data Sheet)

Suitable (and Unstable Extinguishing Media):	Water, foam, dry chemical powder; avoid using water streams.
Special protective equipment & Precaution for Fire-fighters:	Wear self-contained breathing apparatus and full protective gear
Special Hazards arising from the Chemicals:	May release toxic fumes of carbon monoxide and carbon dioxide when burned.

6 ACCIDENTAL RELEASE MEASURES

Personal precaution, protective equipment & emergency procedure:	Use appropriate protective gear (gloves, goggles). Ensure proper ventilation.
Environment precautions:	Prevent release into the environment. Avoid runoff into drains.
Methods and material for containment and cleaning up:	Absorb spills with inert material and place into a suitable container for disposal.

7 HANDLING & STORAGE

Precautions for safe handling:	Wear appropriate protective equipment. Avoid direct contact with skin and eyes.
Condition for safe storage, incl. any incompatibilities:	Store in a cool, dry place in a tightly closed container. Avoid contact with strong oxidizers.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limit	Basis	Entity
Lactic Acid	No established limit in India, refer to local regulations.	Local Occupational Safety Standards	India

Personal Protection

Eyes:	Wear safety goggles.
Inhalation:	Use a respirator in poorly ventilated areas.
Skin	Wear protective gloves and clothing.
Ingestion:	Prevent accidental ingestion. Seek immediate medical attention if ingested.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Physical State:	Clear, colorless liquid, Liquid	Vapour Pressure:	0.037 mmHg at 25 °C
Odour:	Sour, acidic odor	Density:	1.21 g/cm ³
Color:	Colorless to pale yellow	Evaporation Rate:	N/A
Molecular Weight:	90.08 g/mol	Flammability:	Combustible
pH(1% sol. In water):	~2.0	Upper /lower Explosive limit:	N/A
Boiling Point:	325 °C	Flash Point:	122 °C
Melting Point:	18.5 °C	Specific Gravity:	1.21
		Solubility:	Soluble in water, alcohol, and ether



SDS (Safety Data Sheet)

10 STABILITY AND REACTIVITY

Reactivity:	Reacts with strong oxidizing agents.
Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	Will not occur
Condition To Avoid:	Avoid high temperatures, direct sunlight, and incompatible materials.
Incompatible Material:	Strong oxidizing agents, bases.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Low acute toxicity by ingestion or skin contact
Skin:	Causes skin irritation
Eyes:	Causes serious eye damage
Respiratory:	May cause irritation to respiratory tract.
Ingestion:	Causes gastrointestinal irritation.
Carcinogenicity:	N/A
Teratogenicity:	No significant teratogenic effects reported.
Germ Cell Mutagenicity:	No evidence of mutagenic effects.
Embryotoxicity:	N/A
Specific Target Organ Toxicity:	No significant effects observed.
Reproductive Toxicity:	No significant reproductive effects observed.
Respiratory/Skin Sensitization:	No significant sensitization effects observed.

12 ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate:	Low toxicity to aquatic organisms.
Aquatic Invertebrate:	Moderately toxic.
Terrestrial:	N/A
Persistence and Degradability:	Readily biodegradable
Bioaccumulative Potential:	No bioaccumulation expected.
Mobility in Soil:	High mobility in water.
PBT and vPvB Assessment:	Does not meet the criteria for PBT/vPvB.
Other Adverse Effects:	No significant adverse effects reported

13 DISPOSAL CONSIDERATIONS

Water Residue:	Neutralize with an appropriate base and dispose of as non-hazardous waste.
Product Containers:	Dispose of containers in accordance with local environmental regulations.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods.

14 TRANSPORT INFORMATION

DOP(Dept. Of Transport, India):	N/A
---------------------------------	-----



SDS (Safety Data Sheet)

TDG(Transport Of Dangerous Goods, India):	N/A
IMDG(International Maritime Dangerous Goods:	N/A
IATA(International Air Transport Association):	N/A
ICAO(International Civil Aviation Organization):	N/A

15 REGULATORY INFORMATION

No regulatory Information Available

16 OTHER INFORMATION

Revision Date: March 2024

Compliance: This document has been prepared in accordance with the SDS requirements

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated.

However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.