

# SAFETY DATA SHEET

## **1. Identification**

Product name: CAS number: Synonyms: Lactic Acid 85% Solution 50-21-5 DL-Lactic acid

Details of the supplier of the safety data sheet Company

Lab Alley, LLC 12501 Pauls Valley Road, Suite A, Austin, TX 78737 U.S.A

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## **2.** Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation

Category 2 Category 1

Label Elements

Signal Word Danger

Hazard Statements Causes skin irritation Causes serious eye damage



Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep only in original container Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eyes 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 or doctor/physician Spills Absorb spillage to prevent material damage Storage Store in corrosive resistant polypropylene container with a resistant inliner Hazards not otherwise classified (HNOC)

None identified

## **3.** Composition / information on ingredients

Component	CAS-No	Weight %
Lactic acid	50-21-5	85
Water	7732-18-5	15

	4. First-aid measures			
General Advice	If symptoms persist, call a physician.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.			
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.			
Ingestion	Clean mouth with water and drink afterwards plenty of water.			
Most important symptoms/effects Notes to Physician	Causes eye burns. Treat symptomatically			

## 5. Fire-fighting measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Unsuitable Extinguishing Media No information available

 Flash Point
 110 °C / 230 °F

 Method No information available

 Autoignition Temperature
 No information available

 Explosion Limits
 No data available

 Upper
 No data available

 Lower
 No data available

 Sensitivity to Mechanical Impact
 No information available

 Sensitivity to Static Discharge
 No information available

### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) **Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 2	Flammability 1	Instability 1	Physical hazards N/A					
	6. Accidental rel	ease measures						
Personal Precautions Environmental Precautions	n. Use personal protective equip the environment. See Section	oment. 12 for additional ecological						
Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Up								
	7. Handling a	and storage						
Handling	landling Ensure adequate ventilation. Wear personal protective equipment. Do not get in eyes, or skin, or on clothing. Avoid ingestion and inhalation.							
Storage	Keep containers tightly clos	ed in a dry, cool and well-ventil	ated place.					
8. Exposure controls / personal protection								
Exposure Guidelines         This product does not contain any hazardous materials with occupational exposure of the region specific regulatory bodies.								
Engineering Measures	-	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.						
Personal Protective Equipment								
Eye/face Protection	Tightly fitting safety goggles	s. Face-shield.						
Skin and body protection	Long sleeved clothing.							
Respiratory ProtectionFollow the OSHA respirator regulations found in 29 CFR 1910.134 or Europe EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved resp exposure limits are exceeded or if irritation or other symptoms are experience								
Hygiene Measures	Handle in accordance with	good industrial hygiene and saf	ety practice.					
	9 Physical and ch	mical proportion						

9. Physical and chemical properties							
Physical State	viscous liquid Liquid						
Appearance	No information available						
Odor	pungent						
Odor Threshold	No information available						
рН	28						
Melting Point/Range	18 °C / 64.4 °F						
Boiling Point/Range	122 °C / 251.6 °F @ 15 mmHg						
Flash Point	110 °C / 230 °F						
Evaporation Rate	No information available						
Flammability (solid,gas)	Not applicable						
Flammability or explosive limits							
Upper	No data available						
Lower	No data available						

Vapor Pressure Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight No information available No information available 1.200 soluble No data available No information available No information available No information available C3H6O3 90.08

## **10. Stability and reactivity**

Reactive Hazard	None known, based on information available				
Stability	Stable under normal conditions.				
Conditions to Avoid	Excess heat. Incompatible products.				
Incompatible Materials	Acids, Bases, Strong oxidizing agents, Reducing agents				
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)					
Hazardous Polymerization	Hazardous polymerization does not occur.				
Hazardous Reactions	None under normal processing.				

## **11. Toxicological information**

Acute Toxicity

<b>Product Information</b>	า								
Oral LD50		Based on ATE data							
Dermal LD50		Based on ATE data				kg.			
Vapor LC50		Based on ATE data	a, the classification	n criteria are not me	et. ATE > 20 mg/l.				
Component Informa	ation								
Componer	nt	LD50 Oral		LD50 Dermal	LC50 Inhalation				
Lactic acio	b	LD50 = 3543 mg/kg(R	Rat) >	2 g/kg (Rabbit)	No	ot listed			
Water		LD50 > 90 mL/kg(Ra	at )	Not listed	Nc	ot listed			
Toxicologically Syn Products	-	No information ava			I				
Delayed and immed	diate effects a	as well as chronic effec	cts from short an	d long-term expo	sure				
Irritation		Irritating to skin; Ri	Irritating to skin; Risk of serious damage to eyes						
Sensitization		No information ava	No information available						
Carcinogenicity		The table below inc	dicates whether ea	ach agency has list	ed any ingredient a	s a carcinogen.			
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
Lactic acid	50-21-5	Not listed	Not listed	Not listed	Not listed	Not listed			
Water 7732-18-5 Not listed N			Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects         No information available									
Reproductive Effec	ts	No information ava	No information available.						
Developmental Effe	ects	No information ava	No information available.						
Teratogenicity No information available.									

STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects, both acute and	No information available
delayed Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

## **12. Ecological information**

Ecotoxicity Do not empty into drains.

 Persistence and Degradability
 Soluble in water Persistence is unlikely based on information available.

 Bioaccumulation/ Accumulation
 No information available.

## Mobility Will likely be mobile in the environment due to its water solubility.

## **13. Disposal considerations**

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information				
DOT	Not regulated				
UN-No	UN3265				
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.				
Proper technical name	(LACTIC ACID)				
Hazard Class	8				
Packing Group	III				
TDG	Not regulated				
	Not regulated				
UN-No	UN3265				
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.				
Hazard Class	8				
Packing Group	III				
IMDG/IMO	Not regulated				
UN-No	UN3265				
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.				
Hazard Class	8				
Packing Group					
	15. Regulatory information				

# All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Lactic acid	Х	Х	-	200-018-0	-		Х	Х	Х	Х	Х
Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Legend:											

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

Yes No No No No

U.S. Federal Regulations TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazardous Cate Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressur Reactive Hazard	
Clean Water Act	Not applicable

Clean Air Act	Not applicable

**OSHA** Occupational Safety and Health Administration Not applicable

#### CERCLA

Not applicable

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	Х	-	-

### **U.S. Department of Transportation**

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

Slight risk, Grade 1

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class E Corrosive material D2B Toxic materials



## **16. Other information**

Date of Issue:	1/18/2024
Revision:	None

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.