## **Safety Data Sheet**

## L-lactic acid

Version: V2.0.0.1

Report No.: BWJ5336-2016-MSDS-US

Creation Date: 2025/11/19

Revision Date: -



#### \*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1	Identification
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### | Product identifier

Product Name	L-lactic acid
Cat No.	BWJ5336-2016
CAS No.	79-33-4
EC No.	201-196-2
Molecular Formula	C3H6O3

### Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

### Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

### | Emergency phone number

Emergency phone number	010-58103678
Emergency bhone number	∥ ∪ IU-30 IU3070

2 Hazard(s) identification

## Hazard classification according to 29 CFR 1910.1200

Skin corrosion/irritation	Category 1C
Serious eye damage/irritation	Category 1

### Label elements

<b>Danger</b>

#### | Hazard statements

L-lactic acid	Version: V2.0.0.1 Revision Date:
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
Precautionary statements	
<ul><li>Prevention</li></ul>	
P260	Do not breathe dust/fume.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
◆ Response	
P321	Specific treatment (see information on this label and safety data sheet).
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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
	affected areas with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
▲ Storage	lenses, if present and easy to do. Continue rinsing.
♦ Storage	
P405	Store locked up.
◆ Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.
Other hazards	
	Not applicable.
Hazard description	
<ul> <li>Physical and chemical haz</li> </ul>	arde
Friysical and chemicalnaz	No information available
	No information available
♦ Health hazards	
Inhaled	Corrosive product can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individua
Skin Contact	The product can cause severe skin burns following direct contact with the skin.
Eye	The product can produce severe chemical burns to the eye following direct contact. If timely and appropriate treatment is not available may cause permane blindness.
Environmental hazards	
	Please refer to 12th chapter of SDS.
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	·
3 Composition/information	tion on ingredients
Substance/mixture	

Substance

Component	CAS No.	EC No.	Concentration (wt, %)
L-lactic acid	79-33-4	201-196-2	98

## 4 First-aid measures

### Description of first aid measures

Decemption of mot ala mease	
General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

#### Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

## Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.
- 5 Fire-fighting measures

### | Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

#### Specific hazards arising from the substance or mixture

- 1 Development of hazardous combustion gases or vapor possible in the event of fire.
- 2 May expansion or decompose explosively when heated or involved in fire.

### Special protective equipment and precautions for fire-fighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.
- 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

1 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

L-lactic acid Version: V2.0.0.1 Revision Date:

2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment, do not breathe dust/fume.

#### | Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

- 1 Cut off the source of the leak as much as possible.
- 2 Keep leaks in a ventilated place.
- 3 Isolation of contaminated areas and restrictions on access.
- 4 It is recommended that emergency personnel wear dust masks.
- Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.
  - Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 7 Handling and storage

6

#### Precautions for safe handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.

#### Conditions for safe storage, including any incompatibilities

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

Set up emergency exit and necessary risk-elimination area.

## 8 Exposure controls/personal protection

### | Control parameters

Occupational exposure limit values

Occupational Exposure limit	No relevant regulations
values	

#### | Engineering controls

4

- Ensure adequate ventilation, especially in confined areas.
   Ensure that eyewash stations and safety showers are close to the workstation location.
   Use explosion-proof electrical/ventilating/lighting/equipment.
- Personal protection equipment

General requirement	
Eye protection	Must wear appropriate anti-corrosion goggles.
Hand protection	Must wear acid and alkali resistant chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear acid and alkali resistant chemical protective clothing.

# Physical and chemical properties and safety characteristics

Physical and chemical prope	rties
Appearance (physical state,	White or off-white crystalline powder
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	204.2 ( 101.325 kPa )
Flash point(Closed cup,°C)	Not applicable
Evaporation rate	Not applicable
Flammability	No information available
Upper/lower explosive	Upper limit: No information available; Lower limit: No information available
limits[%(v/v)]	
Vapor pressure	0.038Pa ( 25°C )
Vapor density(Air = 1)	Not applicable
Relative density(Water=1)	1.2 ( 20 °C )
Solubility	860g/L ( 20 °C )
n-octanol/water partition	-0.54 ( 20 °C, pH: 7 )
coefficient	
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	Not applicable

## 10 Stability and reactivity

## | Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	No information available.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# 11 Toxicological information

### Acute toxicity

Acute toxicity No information available

## | Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List
	the IARC Monographs	by NTP	
L-lactic acid	Not Listed	Not Listed	Not Listed

#### Others

L-lactic acid(Component)					
Skin corrosion/irritation	Causes severe skin burns and eye damage(Category 1C)				
Serious eye damage/irritation	Causes serious eye damage(Category 1)				
Skin sensitization	Based on available data, the classification criteria are not met				
Respiratory sensitization	Based on available data, the classification criteria are not met				
Reproductive toxicity	Based on available data, the classification criteria are not met				
STOT-single exposure	Based on available data, the classification criteria are not met				
STOT-repeated exposure	Based on available data, the classification criteria are not met				
Aspiration hazard	Based on available data, the classification criteria are not met				
Germ cell mutagenicity	Based on available data, the classification criteria are not met				

## **12** Ecological information

## | Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
L-lactic acid	LC <sub>50</sub> :130mg/L (96h)(Fish)	EC <sub>50</sub> : > 100mg/L	ErC <sub>50</sub> : 3500mg/L
		(48h)(Crustaceans)	(72h)(Algae)

## | Chronic aquatic toxicity

Chronic aquatic toxicity No information available

### | Persistence and degradability

Persistence and degradability No information available

### Bioaccumulative potential

Bioaccumulative potential No information available

## | Mobility in soil

Component	log Koc	Remark
L-lactic acid	0	

# 13 Disposal considerations

## Disposal considerations

Waste chemicals	Roforo dico	scal chould re	ofor to the releva	nt national and	local lawe	and
waste chemicais	i Beiore also	osai snouid re	eier to the reieva	nt national and	i local laws	and

	regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

## 14 Transport information

#### Label and Mark

Transporting Label | Not applicable

#### IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### IATA-DGR

IATA-DGR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

Transport in bulk in accordance with the IGC Code

Not Available

#### Others

**Precautions for transport** 

Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

## 15 Regulatory information

#### International chemical inventory

Component	Α	В	С	D	E	F	G	Н	I	J	K	L	М
L-lactic acid	<b>√</b>	<b>√</b>	√	<b>√</b>	√	√	√	√	<b>√</b>	<b>√</b>	<b>√</b>	√	<b>√</b>

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZIoC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- (G) Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)

L-lactic acid Version: V2.0.0.1 Revision Date: -

#### [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

#### List of Chemical Substances under International Conventions

Component	Α	В	С
L-lactic acid	×	×	×

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

#### US chemical inventory

Component	Α	В	С	D	E	F	G	Н
L-lactic acid	×	×	×	×	×	×	×	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

#### Note:

- " $\sqrt{\phantom{a}}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

## 16 Other information

#### Information on revision

Creation Date	2025/11/19
Revision Date	-
Reason for revision	-

#### Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

#### Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program

EC <sub>50</sub>	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
$EC_X$	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	RespiratoryProtective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

### Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.