

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 11.08.2022 Version 2

TEKKİM

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Catalog No. TK.200640.00000
Product Name Lactic Acid %80-85
Cas no 79-33-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use as a laboratory reagent. Pharmaceutical production. Cosmetic raw material.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Skin irritation, Category 2
Serious eye damage, Category 1

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary Statements (SEA)

Prevention

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

3.1 Maddeler



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ISO 9001:2015 and ISO 14001:2015

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EC No	231-711-2
Molar mass	90.08 g/mol
Cas No	79-33-4
Concentration	(>= 80 % - <= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

<i>General information</i>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<i>Following inhalation</i>	Provide fresh air..
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
<i>Following ingestion</i>	Give up to two glasses of water. Get medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water. Foam. Dry extinguishing powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Flammable. In case of fire, dangerous flammable gases or vapors may develop.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling



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Advices on safe handling

Observe label precautions.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment

Eye/face protection

Fully fitting safety glasses

Hand protection

Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Protective chlothing.

Respiratory protection

Required when vapors/aerosols are generated.


Recommended Filter type: Filter P 2 (according to DIN 3181) for solid and liquid particles of harmful elements.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties



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Physical state	Oily
Colour	Colorless
Odour	Odorless
Odour threshold	Not applicable.
pH value	2.8 10 g/l 20 °C
Melting point/freezing point	18 °C
Freezing point	No information.
Initial boiling point and boiling range	122 °C
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	0.1 hPa 25 °C
Vapour density	No information.
Density	1.19 - 1.21 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	Soluble.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: -0.62 OECD Test Guideline 117
Auto-ignition temperature	Bioaccumulation is not expected.
Decomposition temperature	No information.
Viscosity	No information.
Kinematic viscosity	No information.
Dynamic viscosity	20 - 40 mPa.s 20 °C
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Violent reactions possible with oxidizing agents and bases.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products


No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects



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Acute oral toxicity

Symptoms: Irritation of mucous membranes in the mouth, throat, esophagus and gastrointestinal tract.

Acute inhalation toxicity

Symptoms: Possible symptoms:, mucosal irritations

Skin irritation

Mixture causes skin irritation.

Eye irritation

Risk of corneal clouding.

Mixture causes serious eye injury.

11.2 Additional information

Handle in accordance with safety and hygiene rules.

Components

L-(+)-Lactic acid

Acute oral toxicity

LD50 Rat: 3,543 mg/kg

US-EPA

Acute inhalation toxicity

LC50 Rat: > 7.94 mg/l; 4 hours; aerosol

OECD Test Guideline 403

Acute dermal toxicity

LD50 Rabbit: > 2.000 mg/kg

US-EPA

Skin irritation

Rabbit

Result: irritations

OECD Test Guideline 404

Eye irritation

In vitro study

Result: Irreversible effects on the eyes

(ECHA)

SECTION 12: Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.


12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects



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Biological effects:
Harmful effect due to pH change.
Discharge into the environment should be prevented.

Components

L-(+)-Lactic acid

Toxicity to fish
static test LC50 *Oncorhynchus mykiss* (Rainbow trout): 130 mg/l; 96 h
US-EPA

Toxicity to daphnia and other aquatic invertebrates
static test EC50 *Daphnia magna* (Water flea): 130 mg/l; 48 hours
Analytical observation: yes
OECD Test Guideline 202

static test NOEC *Daphnia magna* (Water flea): 180 mg/l; 48 hours
Analytical observation: yes
OECD Test Guideline 202

Toxicity to algae (algae)
static test IC50 *Pseudokirchneriella subcapitata* (green algae): 3,500 mg/l; 72 hours
Analytical observation: yes
OECD Test Guideline 201

static test NOEC *Pseudokirchneriella subcapitata* (green algae): 1,520 mg/l; 72 hours
Analytical observation: yes
OECD Test Guideline 201

Toxicity to bacteria
static test EC50 active waste: > 100 mg/l; 3 hours
OECD Test Guideline OECD 209

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 3265	UN 3265	UN 3265	UN 3265	UN 3265
14.2 UN proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains: L-lactic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains: L-lactic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains: L-lactic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains: L-lactic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains: L-lactic acid)
14.3 Transport hazard class(es) 8	8	8	8	8



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14.4 Packing group

14.5 Environmental hazards

NO	NO	NO	NO	NO
No information available.	No information available.	No information available.	No information available.	No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

H315 Causes skin irritation.


H318 Causes serious eye damage.

Person Who Prepared the Safety Data Sheet:

Name: Erhan DİLER
Certificate Number and Date: 11.29.03 & 11 Şubat 2020
Communication information: 05069903686



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