

Safety Data Sheet

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

Revision Date: 08.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.170490.00000
Product Name Citric Acid Monohydrate
Cas no 5949-29-1

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

1.2.1. Relevant identified uses

Industrial use. Use as a laboratory reagent.

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)

Eye irritation, Category 2

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)

WARNING

Hazard Statements (SEA)

H319 Causes serious eye irritation.

Precautionary Statements (SEA)

Intervention

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

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No 201-069-1
Molar mass 192.12 g/mol
Cas No 5949-29-1
Concentration (>= 80 % - <= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

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General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation

Provide fresh air..

Following skin contact

Wash with plenty of water. Take off contaminated clothing.

Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.

Following ingestion

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. Heavy-than-air vapors may form on the floor surface. May form explosive mixture with air at intense temperatures. In case of fire, dangerous flammable gases or vapors may develop. There is a risk of dust explosion.

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus..

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. Avoid generation of dust..

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

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



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Storage conditions

Keep container tightly closed in dry and well-ventilated places. Metal containers should not be used.

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

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 dusts occur.

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

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties



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Physical state	Solid
Colour	White
Odour	Odorless
Odour threshold	Not applicable.
pH value	1.85 50 g/l 25 °C
Melting point/freezing point	135 - 152 °C
Freezing point	No information.
Initial boiling point and boiling range	No information.
Flash point	173.9 °C
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	No information.
Upper/lower flammability or explosive limits	No information.
Vapour pressure	< 1 Pa 25 °C
Vapour density	No information.
Density	1.54 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	880 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: -1.72 (20 °C) Bioaccumulation is not expected.
Auto-ignition temperature	No information.
Decomposition temperature	> 170 °C
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

There is a risk of dust explosion. Forms explosive mixtures with air at intense temperatures.

10.2 Chemical stability

When heated, the water of crystallization is released. The product is stable under storage at normal room temperatures.

10.3 Possibility of hazardous reactions

Violent reactions possible with metals, oxidizing agents, bases, reducing compounds.

10.4 Conditions to avoid

Temperatures above the melting point. Strong heating.

10.5 Incompatible materials

Metals.

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

LD50 Rat: 11.700 mg/kg

OECD Test Guideline 401

(anhydrous substance)

Symptoms: In high dose: Irritating to mucous membranes, pain, vomit containing blood.

Acute inhalation toxicity

Symptoms: Possible damages: Irritation symptoms in the respiratory tract.

Acute dermal toxicity

LD50 Rat: > 2.000 mg/kg

OECD Test Guideline 402

(anhydrous substance)

Eye irritation

Rabbit

Result: Severe irritations

OECD Test Guideline 405

(anhydrous substance)

Causes serious eye irritation.

11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 Leuciscus idus (Golden orpheus): 440 - 760 mg/l; 96 h

(anhydrous substance) (IUCLID)

Toxicity to daphnia and other aquatic invertebrates

EC5 E.sulcatum: 485 mg/l; 72 hours

(anhydrous substance)

EC50 Daphnia magna (Water flea): ca. 120 mg/l; 72 hours

(anhydrous substance) (IUCLID)

Toxicity to algae (algae)

IC5 M.aeruginosa: 80 mg/l; 8 g

(anhydrous substance)

Toxicity to bacteria

EC5 Pseudomonas putida: > 10,000 mg/l; 16 h

(anhydrous substance)

12.2 Persistence and degradability

Biodegradation

98%; 2 g

OECD Test Guideline 302B

(anhydrous substance)

It is easily purified from water.

Biochemical Oxygen Demand (BOD)

481mg/g (5g)

(External product safety sheet)

Chemical Oxygen Demand (COD)

685 mg/g

(External product safety sheet)

12.3 Bioaccumulative potential



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Partition coefficient (n-octanol/water)
log Pow: -1.72 (20 °C)
OECD Test Guideline 117
(anhydrous substance) Bioaccumulation is not expected.

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

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

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				
--	--	--	--	--
14.2 UN proper shipping name				
It is not classified as dangerous goods.	It is not classified as dangerous goods.	It is not classified as dangerous goods.	It is not classified as dangerous goods.	It is not classified as dangerous goods.
14.3 Transport hazard class(es)				
--	--	--	--	--
				
14.4 Packing group				
--	--	--	--	--
14.5 Environmental hazards				
--	--	--	--	--
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



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Full text of H statements

H319 Causes serious eye irritation.

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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