

Safety Data Sheet

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

Revision Date: 04.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.010030.00000
Product Name Acetic Acid (Glacial) %99 - %100
Cas no 64-19-7

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

1.2.1. Relevant identified uses

Pharmaceutical production. Reagent for development and research. 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)

Flammable liquids, Category 3
Skin Corrosion, Subcategory 1A
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)

H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.

Precautionary Statements (SEA)

Prevention
P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

P301+P310 IF SWALLOWED: Call a NATIONAL POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.
P308+P313 IF exposed and concerned: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

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



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ISO 9001:2015 and ISO 14001:2015

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3.1 Maddeler

EC No	200-580-7
Molar mass	60.05 g/mol
Cas No	64-19-7
Concentration	(99 % - 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>	Move to fresh air. Call a doctor.
<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>	Please give up to two glasses of water. Get immediate medical attention. Do NOT induce vomiting.

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 vapors in the air at the ground surface may occur.. It can create explosive mixtures with air on intense heating. In case of fire hazardous combustion gases or vapors may occur..

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.



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SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions.

Advices on general occupational hygiene

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Metal packaging 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

Acetic acid (64-19-7)

TR MAK Acceptable maximum Concentration (MAK) 10 mbp
25 mg / m³

TR OEL 8 hour set for reference time measured or calculated time weighted average (TWA): 10 mbp
25 mg / m³

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: butyl rubber

Glove thickness: 0.7 mm

Puncture time: 480 minutes

Contact with splash

Glove material: natural latex

Glove thickness: 0,6 mm

Puncture time: 30 minutes

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

Other skin protection

Flame reterdant antistatic protective chlothing.


Respiratory protection

Required when vapors / aerosols are formed.

Recommended Filter Type: Filter E- (P2)



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SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	Pain
Odour threshold	0,02 ppm
pH value	2,0 - 3,0 50 g/l 20 °C
Melting point/freezing point	16 °C
Freezing point	No information.
Initial boiling point and boiling range	118 °C
Flash point	39 °C
Evaporation rate	No information.
Flammability (solid, gas)	463 °C
Upper/lower flammability or explosive limits	4 %(V)
Upper/lower flammability or explosive limits	19,9 %(V)
Vapour pressure	20 hPa 20 °C
Vapour density	No information.
Density	1,04 g/cm ³ 20 °C
Relative density	2,07
Water solubility (g/l)	Soluble.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: -0,17 at 25 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	1,17 mm ² /s 20 °C
Dynamic viscosity	1,05 mPa.s 25 °C
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Vapours may form explosive mixtures with air.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Risk of explosion with peroxy compounds, perchloric acid, fragrant sulfuric acid, phosphorus halides, hydrogen peroxide, chromium (VI) oxide, potassium permanganate, peroxides, strong oxidizing agents.

There is a risk of explosion or formation of flammable gases or vapors with iron, zinc, magnesium, mild steel.

Violent reactions possible with strong alkalis, aldehydes, alkali hydroxides, nonmetal halides, ethanolamine, acetaldehyde, alcohols, halogen-halogen compounds, chlorosulfonic acid, chromosulfuric acid, potassium hydroxide, nitric acid.

10.4 Conditions to avoid

In case of warming.

10.5 Incompatible materials

Various 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: 3.310 mg / kg

(RTECS)

Symptoms: If swallowed, eating with severe burning of the mouth and throat. There is a risk of perforation of the tube and stomach., Nausea, Vomiting, Inhalation with vomiting risk., Lung failure possible after inhalation of vomit.

Acute inhalation toxicity
LCLO Rat: 39.95 mg / l; 4 hrs
(RTECS)

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages :, respiratory damage in the system, Pneumonia, bronchitis, Inhalation to edema in the respiratory system
Symptoms may be delayed

Skin irritation
Rabbit
Result: Causes burns.

(IUCLID)
Causes severe burns.

Eye irritation
Rabbit
Result: Causes burns.

(IUCLID)
Causes serious eye damage.
Blindness risk!

11.2 Additional information

The product has an extremely destructive effect on mucous membranes and tissues of the upper respiratory tract, eyes and skin. Laryngeal spasm, inflammation and edema, bronchial spasm, inflammation and edema, pneumonitis, pulmonary edema, burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, swallowing or inhalation of concentrated acetic acid, respiratory and digestive pathways cause damage to tissues. Symptoms; vomiting blood, bloody diarrhea, edema and/or perforation of the esophagus and gastric gate, pancreatitis, hematuria, anuria, uremia, albuminuria, hemolysis, convulsions, bronchitis, pulmonary edema, pneumonia, cardiovascular system failure, shock and death.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish
semi-static test LC50 - Oncorhynchus mykiss (Rainbow trout) - > 1.000 mg/l - 96 h
(OECD Testing Guide 203)

Toxicity to daphnia and other aquatic invertebrates
static test EC50 - Daphnia magna (Water flea) - > 1.000 mg/l - 48 h
(OECD Testing Guide 202)


Toxicity to algae (algae)
static test EC50 - Skeletonema costatum - > 1.000 mg/l - 72 h
(ISO 10253)

Toxicity to bacteria
microtox test EC50 - Photobacterium phosphoreum - 11 mg/l - 15 min
(IUCLID)

12.2 Persistence and degradability



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Biodegradation

99%; 30 g

OECD Test Guideline 301D

(HSDB)

It is easily soluble in nature by itself.

95%; 5 g

OECD Test Guideline 302B

Easily purified from water

Biochemical Oxygen Demand (BOD)

880 mg / g (5 g)

Ratio BOD / ThBOD

BOD5 76%

(IUCLID)

12.3 Bioaccumulative potential

Partition coefficient (n-octanol / water)

log Pow: -0.17 (25 ° C)

(experimental)

(ECHA) 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

Biological effects:

Harmful effect due to pH change. It is corrosive even in its diluted form.

Discharge to 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 UN 2789	UN 2789	UN 2789	UN 2789	UN 2789
14.2 UN proper shipping name ACETIC ACID, GLACIAL or ACETIC ACID SOLUTION, more than 80% acid by mass. 8 (3), II, Segregation Group: 1 (Acids)	ACETIC ACID, GLACIAL or ACETIC ACID SOLUTION, more than 80% acid by mass. 8 (3), II, Segregation Group: 1 (Acids)	ACETIC ACID, GLACIAL or ACETIC ACID SOLUTION, more than 80% acid by mass. 8 (3), II, Segregation Group: 1 (Acids)	ACETIC ACID, GLACIAL or ACETIC ACID SOLUTION, more than 80% acid by mass. 8 (3), II, Segregation Group: 1 (Acids)	ACETIC ACID, GLACIAL or ACETIC ACID SOLUTION, more than 80% acid by mass. 8 (3), II, Segregation Group: 1 (Acids)
14.3 Transport hazard class(es) 8(3)	8(3)	8(3)	8(3)	8(3)




14.4 Packing group

II II II II II

14.5 Environmental hazards



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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

H226 Flammable liquid and vapour.


H314 Causes severe skin burns and 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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