

Safety Data Sheet

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

Revision Date: 06.09.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.201792.00000
Product Name Cyclohexanone
Cas no 108-94-1

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)

Flammable liquid, Category 3
Acute toxicity, Category 4, Oral
Acute toxicity, Category 4, Inhalation
Acute toxicity, Category 4, Dermal
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)

H226 Flammable liquid and vapour.
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary Statements (SEA)



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Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

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.

P313 Get medical advice/see your doctor.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	203-631-1
Molar mass	98.14 g/mol
Cas No	108-94-1
Concentration	(<= 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>	Remove to fresh air. Call a doctor. If breathing stops: apply mechanical respiration immediately, with oxygen if necessary.
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	Rinse immediately carefully and thoroughly with eye-bath or water..
<i>Following ingestion</i>	Be careful if the patient vomits. Aspiration hazard! Keep airway clear and call a doctor immediately. Lung failure is possible after inhalation of vomit.

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

Laxative : Sodium sulfate (1 tablespoon 250 ml of water..)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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. Forms explosive mixtures with air at elevated temperatures. In case of fire, dangerous flammable gases or vapors may develop. There may be a flashback. Be careful.

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



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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

Be careful not to mix into the sewer. Risk of explosion.

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

Advices on safe handling

Observe label precautions. Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places. Keep away from heat and anything that can cause ignition.

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

Cyclohexanone (108-94-1)

EN MAK acceptable maximum concentration (MAK) 50 mbp
200 mg/m³

EN OEL Another time unless specified, 15 for a minute 20 mbp
81,6 mg/m³
not to be exceeded exposure upper limit value (STEL):

8 hour set for reference time measured or calculated time weighted average (TWA): 10 mbp
40,8 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



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Fully fitting safety glasses

Hand protection

Hand protection

in full contact

Glove material : butyl rubber

Glove thickness: 0.70 mm

Absorption time: > 480 minutes

In contact with splash

Glove material : Viton (R)

Glove thickness: 0.70 mm

Absorption time: > 120 minutes

Gloves to be used must comply with EC directive 89/686/EEC specifications and EN 374 standards.

Other skin protection

Flame retardant antistatic protective clothing.

Respiratory protection

Required when vapors/aerosols are generated.

Recommended Filter type: Filter A (according to DIN 3181), for vapors of organic compounds.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	Angle
Odour threshold	0,12 mbp
pH value	~7 70 g/l 20 °C
Melting point/freezing point	-31 °C
Freezing point	No information.
Initial boiling point and boiling range	155 °C 1.013 hPa
Flash point	43 °C
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	1,1 %(V)
Upper/lower flammability or explosive limits	9,4 %(V)
Vapour pressure	4,5 hPa 20 °C
Vapour density	No information.
Density	0,95 g/cm3
Relative density	No information.
Water solubility (g/l)	90 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log POW: 0,86 25 °C - Bioaccumulation is not expected.
Auto-ignition temperature	430 °C
Decomposition temperature	No information.

Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	2,2 mPa.s 25 °C
Explosive properties	Not classified as explosive.
Oxidising properties	No information.


SECTION 10: Stability and Reactivity

10.1 Reactivity

Vapours may form explosive mixtures with air.



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10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Risk of explosion with nitric acid, hydrogen peroxide, oxidizing agents, mineral acids.

10.4 Conditions to avoid

In case of warming.

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

Acute oral toxicity

LD50 Rat: 1.620 mg/kg

(ECHA)

Symptoms: gastrointestinal disorders, risk of aspiration with vomiting, inhalation may cause pulmonary edema and pneumonitis.

Acute inhalation toxicity

LC50 Rat: > 6.2 mg/l; 4 hours; steam

(ECHA)

Symptoms: At high dose:, Irritation symptoms in the respiratory tract.

Acute dermal toxicity

LD50 Rabbit: 1.100 mg/kg

(External product safety sheet)

Skin irritation

Rabbit

Result: irritating

OECD Test Guideline 404

Causes skin irritation.

Since it reduces the oil rate on the skin, it can irritate the skin and cause burns in case of prolonged exposure at certain intervals.

Eye irritation

Rabbit

Result: Irreversible effects on the eyes

(ECHA)

Causes serious eye damage. Risk of corneal clouding.

Repeated dose toxicity

Rat

male and female

Oral

2,160 h

NOAEL: 143 mg/kg

OECD Directive 408

11.2 Additional information

After major absorption:

Headache, mouth watering, drooling, nausea, vomiting, dizziness, narcosis, coma.


Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity



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Toxicity to fish

flow-through test LC50 Pimephales promelas (Carp juvenile): 527 - 732 mg/l; 96 h
OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

static test EC50 Daphnia magna (Water flea): 800 mg/l; 24 hours
DIN 38412

EC5 Protozoa (Unicellular): 573 mg/l; 48 hours
(maximum permissible toxic concentration) (IUCLID)

Toxicity to algae (algae)

IC5 Scenedesmus quadricauda (green algae): 370 mg/l; 8 g
(IUCLID)

static test EC50 Chlamydomonas reinhardtii (green algae): 32.9 mg/l; 72 hours

Analytical observation: yes
(ECHA)

Toxicity to bacteria

EC5 Pseudomonas putida: 180 mg/l; 16 h
(maximum permissible toxic concentration) (Source)
static test EC50 active waste: > 1,000 mg/l; 30 minutes
OECD Test Guideline OECD 209

12.2 Persistence and degradability

Biodegradation

87%; 14 g; oxygenated (aerobic)

MITI test

It is easily biodegradable by itself.

90 - 100 %; 28 g; oxygenated (aerobic)

OECD Test Guideline 301F

It is easily biodegradable by itself.

12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water)

log Pow: 0.86 (25 °C)

OECD Test Guideline 107

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

Discharge into environment must be avoided.

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 1915	UN 1915	UN 1915	UN 1915	UN 1915
14.2 UN proper shipping name				



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CYCLOHEXANONE

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Version 2
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14.3 Transport hazard class(es)

3

3

3

3

3



14.4 Packing group

III

III

III

III

III

14.5 Environmental hazards

YES

YES

YES

YES

YES

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.

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Person Who Prepared the Safety Data Sheet:

Name:

Certificate Number and Date:

Communication information:


Erhan DİLER

11.29.03 & 11 Şubat 2020

05069903686



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