

Safety Data Sheet

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

Revision Date: 02.09.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.201791.00000
Product Name Cyclohexane
Cas no 110-82-7

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 liquids, Category 2
Skin irritation (Category 2), H315
Specific Target Organ Toxicity – Single exposure, Category 3, Central nervous system
Aspiration toxicity, Category 1
Short term (acute) aquatic hazard, Category 1
Long (chronic) aquatic hazard, 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)

H225 Highly flammable liquid and vapour.
H304 Fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)



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ISO 9001:2015 and ISO 14001:2015

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Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P233 Keep container tightly closed.
P273 Avoid release to the environment.

Intervention

- P301+P310 IF SWALLOWED: Call a NATIONAL POISON CENTER or doctor/physician.
P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.
P331 Do not induce vomiting.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	203-806-2
Molar mass	84.16 g/mol
Cas No	110-82-7
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 casualty to fresh air and keep warm and at rest..
<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

No information available.

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

Carbon oxides. Flammable. There may be a flashback. Be careful. Heavy-than-air vapors may form on the floor surface. In case of fire, dangerous flammable gases or vapors may develop. Forms explosive mixtures with air at atmospheric temperature.

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

Cyclohexane	(110-82-7)
TWA (8 Hours)	200 ppm 700 mg/m ³

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

in full contact

Glove material : Nitrile rubber

Glove thickness: 0.40 mm

Absorption time: > 480 minutes

In contact with splash

Glove material : Nitrile rubber


Glove thickness: 0.11 mm

Absorption time: > 30 minutes

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



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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	Transparent
Odour	Sweet
Odour threshold	0,5 ppm
pH value	No information.
Melting point/freezing point	6 - 7 °C
Freezing point	No information.
Initial boiling point and boiling range	80 °C 1.013 hPa
Flash point	-20 °C
Evaporation rate	No information.
Flammability (solid, gas)	260,0 °C
Upper/lower flammability or explosive limits	1,2 %(V)
Upper/lower flammability or explosive limits	8,3 %(V)
Vapour pressure	124 hPa 25 °C
Vapour density	No information.
Density	0,775 g/cm ³
Relative density	No information.
Water solubility (g/l)	52 g/l 25 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log POW: 3.44 25 °C - Bioaccumulation is not expected.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	0,89 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.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

There is a risk of explosion or formation of flammable gases or vapors with strong oxidizing agents.

10.4 Conditions to avoid

to temperate.

10.5 Incompatible materials

Rubber, various plastics.

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 Oral - Rat - male and female - > 5,000 mg/kg
(OECD Testing Guide 401)
Symptoms: gastric pain, stomach/intestinal irregularities

Acute inhalation toxicity
LC50 Inhalation - Rat - male and female - 4 h - 19.07 mg/l
(OECD Testing Guide 403)
Symptoms: Possible damages:, Irritation symptoms in the respiratory tract., Inhalation may cause edema of the respiratory tract.

Acute dermal toxicity
LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg
(OECD Testing Guide 402)

Skin corrosion/irritation
Causes skin irritation.

Specific Target Organ Toxicity – Single exposure
May cause drowsiness or dizziness.

Aspiration toxicity
It is fatal if it enters the respiratory tract and is swallowed.
Aspiration toxicity, Inhalation may cause pulmonary edema and pneumonitis.

11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish
flow-through test LC50 - Pimephales promelas (Carp juvenile) -
4.53 mg/l - 96 h
(OECD Testing Guide 203)

Toxicity to daphnia and other aquatic invertebrates
static test EC50 - Daphnia magna (Water flea) - 0.9 mg/l - 48 h
(OECD Testing Guide 202)

Toxicity to algae (algae)
ErC50 - Pseudokirchneriella subcapitata (green algae) - > 4,425 mg/l - 72 h
(OECD Testing Guide 201)

Toxicity to bacteria
IC50 - Bacteria - 29 mg/l - 15 h
(ECHA)

12.2 Persistence and degradability

Biodegradability
oxygenated (aerobic) - Exposure time 28 d
Result: 77% - Easily degradable.
(OECD Test Guide 301F)

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.



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12.6 Other adverse effects

Biological effects:





When allowed to mix with soil or water in large quantities, it may enter drinking water sources. presents danger. Change in characteristic aroma of fish protein. 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 UN 1145	UN 1145	UN 1145	UN 1145	UN 1145
14.2 UN proper shipping name CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE
14.3 Transport hazard class(es) 3	3	3	3	3
				
14.4 Packing group II	II	II	II	II
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

- H225 Highly flammable liquid and vapour.
- H304 Fatal if swallowed and enters airways.
- H315 Causes skin irritation.
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Person Who Prepared the Safety Data Sheet:

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