

# Safety Data Sheet

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

Revision Date: 05.08.2022 Version 2

# TEKKİM

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

### 1.1 Product identifier

Catalog No. TK.080210.00000  
Product Name Hexanes (mixture of isomers)  
Cas no 110-54-3

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

#### 1.2.1. Relevant identified uses

Industrial uses. Scientific research and development. Use as 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  
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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  
Reproductive toxicity, Category 2  
Specific Target Organ Toxicity - Single exposure, Category 3, Central nervous system  
Specific target organ toxicity - Repeated exposure, If inhaled, Category 2, Nervous system  
Aspiration toxicity, Category 1  
Long (chronic) aquatic hazard, Category 2

For the full text of the H and EUH statements 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 vapor.  
H304 Fatal if swallowed and enters respiratory tract.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H361f Suspected of damaging fertility.  
H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)



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## Prevention

- P201 Obtain special instructions before use.
- P210 Keep away from heat / sparks / open flames / hot surfaces. No smoking.
- P240 Ground / bond container or receiving equipment.
- P273 Avoid release to the environment.

## Intervention

- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. DO NOT TRY TO KEEP UP.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P314 Get medical advice / attention if you feel unwell.

## Storage

- P403 + P233 Store in a well ventilated area. Keep container tightly closed.

## SECTION 3: Composition/information on ingredients

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

### 3.1 Maddeler

EC No	203-777-6
Molar mass	86.18 g/mol
Cas No	110-54-3
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>	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
<i>Following ingestion</i>	After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician 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*

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 from the air may occur on the floor surface. May form explosive mixture with air at intense temperatures. In the event of fire, dangerous flammable gases or vapors may develop. There may be glare. Attention please.

### 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



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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

*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.

### 7.2 Conditions for safe storage, including any incompatibilities

*Storage conditions*

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

n-Hexane		(110-54-3)
TR MAK	Acceptable maximum concentration (MAK)	500 mbp 1.800 mg / m <sup>3</sup>
TR OEL	8 hours determined for reference time measured or calculated time weighted average (TWA):	20 mbp 72 mg/m <sup>3</sup>

### 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*



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Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness :0,40 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >10 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*

Flame reterdant antistatic protective chlothing.

*Respiratory protection*

Vapors are required.

Recommended filter type: A filter (according to DIN 3181)

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Transparent
Odour	Characteristic
Odour threshold	Not applicable.
pH value	Not applicable.
Melting point/freezing point	-95 °C
Freezing point	No information.
Initial boiling point and boiling range	68 - 70 °C
Flash point	-22 °C
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	1,0 %(V)
Upper/lower flammability or explosive limits	7,5 %(V)
Vapour pressure	160 hPa 20 °C
Vapour density	2,79
Density	0,66 g/cm3 20 °C
Relative density	No information.
Water solubility (g/l)	0,0095 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	240 °C
Decomposition temperature	No information.

Viscosity

Kinematic viscosity	0,50 mm <sup>2</sup> /s 20 °C
Dynamic viscosity	0,326 mPa.s 20 °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.



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## 10.3 Possibility of hazardous reactions

Risk of explosion with strong oxidizing agents, nitrogen oxides.  
Violent reactions possible with halogens.  
Risk of explosion or formation of flammable gases or vapors with peroxides (sodium salt).

## 10.4 Conditions to avoid

Powerful heating.

## 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

Acute oral toxicity  
LD50 Rat: 16,000 mg / kg  
OECD Test Guideline 401  
Symptoms: Nausea

Acute inhalation toxicity  
LC50 Rat: 172 mg / l; 4 hrs; steam  
(RTECS)  
Symptoms: Irritant symptoms in the respiratory system.

Acute dermal toxicity  
LD50 Rabbit: > 2,000 mg / kg  
(ECHA)

Skin irritation  
Causes skin irritation.

Eye irritation  
Risk of corneal clouding.

CMR effects  
Teratogenicity (may cause developmental disabilities):  
Suspected of damaging the unborn child.

Reproductive toxicity:  
Suspected of damaging fertility.

Specific Target Organ Toxicity - Single exposure  
It may cause drowsiness or dizziness.  
Target Organs: Central nervous system

Specific Target Organ Toxicity - Repeated exposure  
May cause damage to organs through prolonged or repeated exposure.

### 11.2 Additional information


After absorption: Fatigue, Drowsiness, narcosis state.  
After long-term exposure to the chemical: CNS disorders, paralysis symptoms.  
Carry it in accordance with safety and hygiene rules.

## SECTION 12: Ecological information

### 12.1 Toxicity



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Toxicity to fish

LC50 Pimephales promelas (Juvenile Carp): 2.5 mg / l; 96 hrs (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 2.1 mg / l; 48 hrs

## 12.2 Persistence and degradability

No information available.

## 12.3 Bioaccumulative potential

Partition coefficient (n-octanol / water)

logPOW: 4.11

Possible biological accumulation

## 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
<b>14.1 UN number</b> UN 1208	UN 1208	UN 1208	UN 1208	UN 1208
<b>14.2 UN proper shipping name</b> HEXANES. MARINE POLLUTANT P.	HEXANES. MARINE POLLUTANT P.	HEXANES. MARINE POLLUTANT P.	HEXANES. MARINE POLLUTANT P.	HEXANES. MARINE POLLUTANT P.
<b>14.3 Transport hazard class(es)</b> 3	3	3	3	3
<b>14.4 Packing group</b> II	II	II	II	II
<b>14.5 Environmental hazards</b> 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



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## 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 vapor.
- H304 Fatal if swallowed and enters respiratory tract.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

### 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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