

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.080211.00000
Product Name Heptane
Cas no 142-82-5

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

1.2.1. Relevant identified uses

Industrial use. Scientific research and development. 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.
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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 liquid, Category 2

Skin irritation, Category 2

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 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.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 Fatal if swallowed and enters respiratory tract.

H410 Very 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.

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	205-563-8
Molar mass	100.2 g/mol
Cas No	142-82-5
Concentration	(≤ 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Following inhalation	Remove casualty to fresh air and keep warm and at rest..
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	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

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.



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ISO 9001:2015 and ISO 14001:2015

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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 discharge into 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.

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

Heptane		(142-82-5)
TR MAK	Acceptable max concentration (MAK)	500 mbp 2,000 mg / m ³
TR OEL	8 hours specified for reference time measured or calculated time weighted average (TWA):	500 mbp 2.085 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



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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 :0,20 mm

Break through time : >60 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

Required when vapors are generated.

Recommended filter type: A type 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	No information.
pH value	No information.
Melting point/freezing point	-91 °C
Freezing point	No information.
Initial boiling point and boiling range	97 - 98,5 °C
Flash point	-4 °C
Evaporation rate	No information.
Flammability (solid, gas)	223 °C
Upper/lower flammability or explosive limits	1 %(V)
Upper/lower flammability or explosive limits	7 %(V)
Vapour pressure	48 hPa 20 °C
Vapour density	3,46
Density	0,68 g/cm3 20 °C
Relative density	No information.
Water solubility (g/l)	0,05 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: > 3 - Bioaccumulation is not expected.
Auto-ignition temperature	No information.
Decomposition temperature	No information.

Viscosity

Kinematic viscosity	0,64 mm2/s 20 °C
Dynamic viscosity	No information.
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 ignition or formation of flammable gases or vapors with strong oxidizing agents!

10.4 Conditions to avoid

In case of warming.

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:> 5,000 mg / kg

OECD Test Guideline 401

Symptoms: Irritating to the mucus layer.

Acute respiratory toxicity

LC50 Rat:> 29.3 g / m³; 4 hrs; steam

OECD Test Guideline 403

Symptoms: Irritant symptoms in the respiratory system.

Acute dermal toxicity

LD50 Rabbit:> 2,000 mg / kg

OECD Test Guideline 402

Skin irritation

Due to the fact that it reduces the amount of fat on the skin, it may irritate the skin and cause burns in case of prolonged exposure at certain intervals.

Aspiration toxicity

Inhalation can lead to pulmonary edema and pneumonitis.

Causes skin irritation.

Eye irritation

Rabbit

Result: No eye irritation

Specific Target Organ Toxicity - Single exposure

It may cause drowsiness or dizziness.

Target Organs: Central nervous system

11.2 Additional information

If taken in large quantities, it will result in death.

In general, if 6-18 carbon aliphatic hydrocarbons are inhaled directly, pneumonia and lung edema may occur. Handle in accordance with good industrial hygiene and safety practice

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 Carassius auratus (Goldfish): 4 mg / l; 24 hrs

ASTM D1345

(External safety data sheet)

12.2 Persistence and degradability



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Biodegradation

70%; 10 g; oxygenated (aerobic)
(ECHA)

It is easily soluble in nature by itself.

Biochemical Oxygen Demand (BOD)

1.920 mg / g (5 g)

(IUCLID)

Theoretical oxygen demand (ThOD)

3.500 mg / g

(Source)

12.3 Bioaccumulative potential

Partition coefficient (n-octanol / water)

logPOW: 4.66

Possible bioaccumulation

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 1206	UN 1206	UN 1206	UN 1206	UN 1206
14.2 UN proper shipping name				
HEPTANES MARINE POLLUTANT,	HEPTANES MARINE POLLUTANT,	HEPTANES MARINE POLLUTANT,	HEPTANES MARINE POLLUTANT,	HEPTANES MARINE POLLUTANT,
14.3 Transport hazard class(es)				
3	3	3	3	3
				
14.4 Packing group				
II	II	II	II	II
14.5 Environmental hazards				

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YES

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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 vapor.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 Fatal if swallowed and enters respiratory tract.

H410 Very toxic to aquatic life with long lasting effects.

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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