

Trade name: Heptan

Substance number: 155250 Version: 1 / CH Date revised: 28.12.2018

Replaces Version: - / CH Print date: 28.12.18

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

1.1. Product identifier

Heptan

Item No. 15525000

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

Use of the substance/preparation

Reagent for analyses, Chemical for synthesis

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. E-mail address of 0041 (0)71 353 58 58 sdb@haenseler.ch

l address of sdb@ha

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland: 145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225 Skin Irrit. 2 H315 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008 For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms





Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.



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H304 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P331 Do NOT induce vomiting.

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

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains n-Heptane

SECTION 3: Composition/information on ingredients

Hazardous ingredients

n-Heptane

CAS No. 142-82-5 EINECS no. 205-563-8

Registration no. 01-2119457603-38-XXXX

Concentration >= 50 %

Classification (Regulation (EC) No. 1272/2008)

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Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note C

DSD Directive 67/548/EEC, Annex I, Note C, 4

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Ensure supply of fresh air. Take medical treatment.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. Wash skin thoroughly with water (15 min.).

After eye contact

In case of contact with eyes rinse thoroughly with water. Remove contact lenses

After ingestion

Do not induce vomiting - aspiration hazard. If individual is drowsy or unconscious place in recovery position (on left side, with head down). Summon a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

Irritating to respiratory system. Dizziness, Unconsciousness, Narcosis, Headache, Dizziness, Death

SECTION 5: Firefighting measures



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5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Dry powder

Non suitable extinguishing media

not applicable

5.2. Special hazards arising from the substance or mixture

Vapours heavier than air. Forms esplosive mixture with air are possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Use personal protective clothing.

Other information

Cool endangered containers with water spray jet. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale vapours. Ensure adequate ventilation. Keep away sources of ignition.

6.2. Environmental precautions

Do not empty into drains, caverns and basements.

6.3. Methods and material for containment and cleaning up

Prevent spread over a wide area (by containment with sand or earth). Take up with absorbent material (eg sand, kieselguhr). For tall amounts: Take up mechanically and collect in suitable container for disposal. Clean up affected area.

6.4. Reference to other sections

Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Work only in fume cupboards. Do not inhale substance. Avoid formation of aerosols.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a well-ventilated place. Unsuitable material: plastic materials. rubber

Hints on storage assembly

Do not store with oxidizing agents.

Storage classes

Storage class according to TRGS 510 3 Flammable liquid Storage category (Switzerland) 3 Flammable liquid

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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Exposure limit values

n-Heptane

List SUVA Type MAK

Status: 2017; Remarks: ZNS, OAWKT AN; NIOSH

8.2. Exposure controls

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Gas filterA.

Hand protection

Permanent hand contact Use Appropriate Material nitrile rubber - NBR Material thickness 0.4 mm Breakthrough time 480 min Short-term hand contact Use Appropriate Material nitrile rubber - NBR Material thickness 0.2 mm Breakthrough time 60 min Hand protection must comply with EN 374.

Eye protection

Safety glasses

Body protection

Fire-resistant antistatic protective clothing

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid
Colour colourless
Odour characteristic

Melting point

Value -90.5 °C Pressure 1013 hPa

Initial boiling point and boiling range

Value 97 to 98 °C

Flash point

Value -4 °C Method closed cup

Upper/lower flammability or explosive limits

Lower explosion limit 1 to 7 %(V)

Vapour pressure

Value 48 hPa

Temperature 20 °C

Vapour density

Value 3.46



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Solubility in water

Value 0.05 g/l

Temperature 20 °C

Partition coefficient: n-octanol/water

log Pow 4.66 Method experimental

Remarks Due to the distribution coefficient n-octanol/water, accumulation in

organisms is possible.

Ignition temperature

Value 215 °C

Minimum ignition energy

Minimum ignition energy 0.24 MJ

Viscosity

dynamic

Value 0.42 mPa.s

Temperature 20 °C

Explosive properties

evaluation no

SECTION 10: Stability and reactivity

10.1. Reactivity

Risk of explosion with: Air

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Possible incompatibility with materials lister under section 10.5.

10.4. Conditions to avoid

Keep away from sources of heat and ignition.

10.5. Incompatible materials

Oxidising agents, phosphorus, chlorine liquide

10.6. Hazardous decomposition products

None

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity (Components)

n-Heptane

Species rat

LD50 > 5000 mg/kg

Method OECD 401

Remarks Strong corrosive action on the skin and mucous membrane.

Acute dermal toxicity (Components)

n-Heptane

Species rabbit

LD50 > 2000 mg/kg

Method OECD 402



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Acute inhalative toxicity (Components)

n-Heptane

Species rat

LC50 > 29.3 g/m³

Duration of exposure 4 h

Administration/Form Vapors
Method OECD 403

Remarks Irritating to respiratory system.

Skin corrosion/irritation (Components)

n-Heptane

evaluation irritant

Remarks Repeated and prolonged skin contact may lead to defatting and irritation of

the skin.

Serious eye damage/irritation (Components)

n-Heptane

Species rabbit evaluation non-irritant Source IUCLID

Mutagenicity (Components)

n-Heptane

Species Salmonella typhimurium

evaluation No mutagenicity in the Ames-test.

Method OECD 471

Specific Target Organ Toxicity (STOT) (Components)

n-Heptane

Organs: Nervous system

Aspiration hazard (Components)

n-Heptane

Harmful: may cause lung damage if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity (Components)

n-Heptane

Species goldfish (Carassius auratus)

LC50 4 mg/l

Duration of exposure 24 h

12.2. Persistence and degradability

Biodegradability (Components)

n-Heptane

Value 70 %
Duration of test 10 d

evaluation Readily biodegradable

Source ECHA

Biochemical oxygen demand (BOD5) (Components)

n-Heptane

Value 1920 mg/kg

Duration of test 5 d



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Source IUCLID

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water

log Pow 4.66 Method experimental

Remarks Due to the distribution coefficient n-octanol/water, accumulation in

organisms is possible.

12.4. Mobility in soil

General information

There is no data available on the product apart from the information given in this subsection.

12.5. Results of PBT and vPvB assessment

Evaluation of persistance and bioaccumulation potential

The Substance doesn't meets PBT/vPvB-criterions

12.6. Other adverse effects

General information

Do not allow it to reach soil, ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information



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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1206	1206	1206
14.2. UN proper shipping name	HEPTANES	HEPTANES	HEPTANES
14.3. Transport hazard class(es)	3	3	3
Label	<u>*</u>	3	3
14.4. Packing group	II	II	II
Limited Quantity	11		
Transport category	2		
14.5. Environmental hazards	***	Marine Pollutant	¥22>
	ENVIRONMENTALLY HAZARDOUS	$\overline{}$	ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Germany)

Water Hazard Class WGK 2

(Germany)

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic, Category 1

Asp. Tox. 1 Aspiration hazard, Category 1



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Flam. Liq. 2 Flammable liquid, Category 2 Skin Irrit. 2 Skin irritation, Category 2

STOT SE 3 Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: *** This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.