

Trade name: Aether petrolei

Substance number: 150800

Version: 6 / CH

Date revised: 01.07.2024

Replaces Version: 5 / CH

Print date: 01.07.24

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

1.1. Product identifier

Aether petrolei

Item No. 15080000

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

Use of the substance/preparation

Reagent for analyses

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

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 Chronic 2 H411

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.

H304 May be fatal if swallowed and enters airways.

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H411 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 *** Hydrocarbons, C6, isoalkanes, <5% n-hexane; n-hexane; pentane

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****Hazardous ingredients *******Hydrocarbons, C6, isoalkanes, <5% n-hexane**

CAS No.	64742-49-0		
EINECS no.	931-254-9		
Registration no.	01-2119484651-34-XXXX		
Concentration	>= 50		%
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Liq. 2	H225	
	Skin Irrit. 2	H315	
	STOT SE 3	H336	
	Asp. Tox. 1	H304	
	Aquatic Chronic 2	H411	

pentane

CAS No.	109-66-0		
EINECS no.	203-692-4		
Concentration	>= 50		%
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Liq. 2	H225	
	Asp. Tox. 1	H304	
	STOT SE 3	H336	
	Aquatic Chronic 2	H411	

Additional remarks:

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

n-hexane

CAS No.	110-54-3		
EINECS no.	203-777-6		
Concentration	>= 2.5	< 3	%
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Liq. 2	H225	
	Asp. Tox. 1	H304	
	Skin Irrit. 2	H315	

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Repr. 2	H361f
STOT SE 3	H336
STOT RE 2	H373
Aquatic Chronic 2	H411

Concentration limits (Regulation (EC) No. 1272/2008)

STOT RE 2 H373 >= 5 %

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from danger area. Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. If necessary, give oxygen. Seek medical advice immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.

After skin contact

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Do not induce vomiting. Summon a doctor immediately. Rinse out mouth and give plenty of water to drink. Administer activated charcoal.

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

Dizziness, Unconsciousness, Nausea, Vomiting, CNS Disturbance, Narcosis, respiratory moderation

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation. Frequent and persistent contact with the skin can cause dermatitis.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Dry powder

Non suitable extinguishing media

Water

5.2. Special hazards arising from the substance or mixture

Carbon monoxide (CO); Can build mixtures of gas and air which are capable of explosion.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Wear full protective suit. Use self-contained breathing apparatus.

Other information

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep away unprotected persons.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not empty into drains, caverns and basements. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation. Don't rinse away with water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed. Provide good ventilation of working area (local exhaust ventilation if necessary). Handle and open container with care. Avoid formation of aerosols.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Use explosion-proof equipment/fittings and non-sparking tools. Risk of explosion if the liquid enters the drains.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool place. explosion proof. Provide solvent-resistant and impermeable floor.

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

Further information on storage conditions

Keep container tightly closed, cool and dry. Protect from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Exposure limit values ***

n-hexane

List	SUVA			
Type	MAK			
Value	180	mg/m ³	50	ppm(V)
Short term exposure limit	1440	mg/m ³	400	ppm(V)
Skin resorption / sensibilisation: H; Pregnancy group: S; Remarks: H B R2F SSc; NS, Auge; NIOSH				

pentane

List	SUVA			
Type	MAK			
Value	1800	mg/m ³	600	ppm(V)
Short term exposure limit	3600	mg/m ³	1200	ppm(V)
Pregnancy group: S; Remarks: SSc; PNSKT HU; NIOSH				

Derived No/Minimal Effect Levels (DNEL/DMEL)

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	13964	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	5306	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	1377	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1137	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	1301	mg/kg/d

pentane

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	432	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3000	mg/m ³

Predicted No Effect Concentration (PNEC)**pentane**

Type of value	PNEC
Type	Freshwater

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Concentration	0.23	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	1.2	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0.23	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	1.2	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	3.6	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0.55	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Store work clothing separately. At work do not eat, drink, smoke or take drugs. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, filter AX; At intensive and longer exposition use self-contained breathing apparatus.

Hand protection ***

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	nitrile rubber - NBR
Material thickness	0.35 mm
Breakthrough time	>= 8 h
Appropriate Material	Fluoro carbon rubber - FKM
Material thickness	0.4 mm
Breakthrough time	>= 8 h

Eye protection

Tightly fitting safety glasses

Body protection

Solvent-resistant 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

Physical state liquid

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Colour colourless**Odour** characteristic**Melting point**

Remarks Not applicable

Boiling point or initial boiling point and boiling range

Value 44 °C

Flammability

Flammable.

Upper and lower explosive limits

Lower explosion limit 1 to 7.8 %(V)

Flash point

Value -43 °C

Ignition temperature

Value 280 °C

Decomposition temperature

Remarks not determined

Viscosity ***

Remarks not determined

Solubility(ies)

organic solvents

Remarks soluble

Partition coefficient n-octanol/water (log value)

log Pow 2.9 to 4

Remarks Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

Vapour pressure

Value 573 hPa

Temperature 20 °C

Density and/or relative densityValue 0.66 g/cm³

Temperature 20 °C

9.2. Other information**Solubility in water**

Remarks insoluble

Auto-ignition temperature

Value 245 °C

Remarks Not relevant

Oxidising properties

evaluation None known

Other information

Forms explosive mixture with air are possible.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Formation of explosive gas/air mixtures.

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10.2. Chemical stability

shock. friction. Heat. Sparks

10.3. Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. shock. friction. Heat. Sparks

10.5. Incompatible materials

Oxidising agents

10.6. Hazardous decomposition products

Hydrocarbons, Fume, Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

Remarks Harmful if swallowed.

Acute oral toxicity (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

Species	rat		
LD50	>	5000	mg/kg
Method	OECD 401		

n-hexane

Species	rat		
LD50	>	5000	mg/kg

Acute dermal toxicity (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

Species	rat		
LC50	>	3000	mg/kg
Method	OECD 402		

n-hexane

Species	rabbit		
LD50	>	2800	mg/kg

Acute inhalational toxicity

Remarks Harmful by inhalation.

Acute inhalative toxicity (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

Species	rat		
LC50	>	20	mg/l
Duration of exposure	4	h	
Administration/Form	Vapors		
Method	OECD 403		

pentane

Species	rat		
LC50		364	mg/l
Duration of exposure	4	h	

Skin corrosion/irritation

Remarks Irritating effects on the skin and mucous membrane.

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Skin corrosion/irritation (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

evaluation	Moderately irritating
Method	OECD 404

Serious eye damage/irritation

Remarks	Irritates the eyes.
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Serious eye damage/irritation (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

evaluation	Moderately irritating
Method	OECD 405

Sensitization

Remarks	No sensitization effect known.
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Sensitization (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

evaluation	non-sensitizing
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Subacute, subchronic, chronic toxicity

Remarks	Chronic exposure may cause serious damage of skin.
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Mutagenicity (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

evaluation	No experimental indications on genotoxicity in vivo found.
Source	Analogous

Reproduction toxicity (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

evaluation	No negative effects
Source	Analogous

Carcinogenicity

evaluation	No negative effects
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Carcinogenicity (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

evaluation	No negative effects
Source	Analogous

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation of vapours may lead to headache, drowsiness and dizziness.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****Hydrocarbons, C6, isoalkanes,<5% n-hexane**

Species	red killifish		
LC50	1		mg/l
Duration of exposure	48	h	
Source	Analogous		

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Daphnia toxicity (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

Species	Daphnia magna		
LC50	3.87		mg/l
Duration of exposure	48	h	
Source	Analogous		

Algae toxicity (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

Species	Raphidocelis subcapitata		
ErC50	55		mg/l
Duration of exposure	72	h	
Source	Analogous		

Hydrocarbons, C6, isoalkanes,<5% n-hexane

NOEC	30		mg/l
Duration of exposure	72	h	

12.2. Persistence and degradability**Biodegradability**

Remarks No data available.

Biodegradability (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

Value	98		%
Duration of test evaluation	28	d	
Source	Readily biodegradable		
	Analogous		

12.3. Bioaccumulative potential**General information**

Toxic to aquatic life.

Partition coefficient n-octanol/water (log value)

log Pow	2.9	to	4
Remarks	Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.		

Octanol/water partition coefficient (log Pow) (Components)**Hydrocarbons, C6, isoalkanes,<5% n-hexane**

log Pow	3.6
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12.4. Mobility in soil**Mobility in soil (Components)****Hydrocarbons, C6, isoalkanes,<5% n-hexane**

The product is insoluble and floats on water.

Hydrocarbons, C6, isoalkanes,<5% n-hexane

The product is easily volatile.

Hydrocarbons, C6, isoalkanes,<5% n-hexane

Will not adsorb on soil.

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The product contains no PBT substances
The product contains no vPvB substances.

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12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information / ecology

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Toxic for aquatic organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code

No not dispose with rubbish.

EWC waste code

Should not be released into the sanitary sewer system.

In accordance with regulations for special waste, must be taken, to an authorised special waste incineration plant.

Disposal recommendations for packaging

Unpurified packings can contain mixtures of gas and air which are capable of explosion.

Disposal in compliance with local and national regulations.

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	1268	1268	1268
14.2. UN proper shipping name	PETROLEUM DISTILLATES, N.O.S. (pentane)	PETROLEUM DISTILLATES, N.O.S. (pentane)	PETROLEUM DISTILLATES, N.O.S. (pentane)
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	1 I		
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 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 (Germany) WGK 3

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

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

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.
H361f	Suspected of damaging fertility.

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H373

May cause damage to organs through prolonged or repeated exposure.

H411

Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Chronic 2

Hazardous to the aquatic environment, chronic, Category 2

Asp. Tox. 1

Aspiration hazard, Category 1

Flam. Liq. 2

Flammable liquid, Category 2

Repr. 2

Reproductive toxicity, Category 2

Skin Irrit. 2

Skin irritation, Category 2

STOT RE 2

Specific target organ toxicity - repeated exposure, 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.