

Trade name: Aether petrolei

Substance number: 150800

Version: 4 / CH

Date revised: 02.06.2017

Replaces Version: 3 / CH

Print date: 02.06.17

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

1.1. Product identifier

Aether petrolei

Item No. 15080000

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 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.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
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.
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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;Pentane;Benzene

SECTION 3: Composition/information on ingredients *****Hazardous ingredients (Regulation (EC) No. 1272/2008) *******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)		
	Aquatic Chronic 2	H411
	STOT SE 3	H336
	Flam. Liq. 2	H225
	Asp. Tox. 1	H304

Additional remarks:

DSD Directive 67/548/EEC, Annex I, Note C, 4
 CLP Regulation (EC) No 1272/2008, Annex VI, Note C

Benzene

CAS No.	71-43-2	
EINECS no.	200-753-7	
Concentration	< 1	%
Classification (Regulation (EC) No. 1272/2008)		
	Skin Irrit. 2	H315
	Flam. Liq. 2	H225
	Carc. 1A	H350
	Muta. 1B	H340
	STOT RE 1	H372
	Asp. Tox. 1	H304
	Eye Irrit. 2	H319

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note E
 DSD Directive 67/548/EEC, Annex I, Note E

Other information

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94/69/EG (21. ATP). Content of benzene in the product is smaller than 0.1%. Annotation P is valid. Classification and characterization as may cause cancer (R45) is not necessary.

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

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep away unprotected persons.

6.2. Environmental precautions

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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 precautionary measures against static discharge. 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.

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 ***

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; Status: 2014				

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

Gloves (solvent-resistant)				
Appropriate Material	nitrile rubber - NBR			
Material thickness	0.35	mm		
Breakthrough time	>=	8	h	

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Gloves (solvent-resistant)
 Appropriate Material Fluoro carbon rubber - FKM
 Material thickness 0.4 mm
 Breakthrough time \geq 8 h
 Not suitable: gloves of natural latex
 Not suitable: gloves of polychloroprene
 Not suitable: gloves of butyl rubber - Butyl
 Not suitable: PVC gloves
 Not suitable: leather gloves
 Not suitable: gloves made of thick material

Eye protection

Tightly fitting safety glasses

Body protection

Solvent-resistant protective clothing

SECTION 9: Physical and chemical properties *****9.1. Information on basic physical and chemical properties**

Form	liquid
Colour	colourless
Odour	paraffin-like
Melting point	
Remarks	Not applicable
Initial boiling point and boiling range	
Value	44 to 62 °C
Flash point	
Value	-43 to -45 °C
Flammability (solid, gas)	
Remarks	Not self inflammable
Upper/lower flammability or explosive limits	
Lower explosion limit	1.1 to 7.5 %(V)
Vapour pressure	
Value	330 hPa
Temperature	20 °C
Density	
Value	0.658 g/cm ³
Temperature	15 °C
Solubility in water	
Remarks	insoluble
Solubility(ies) ***	
organic solvents	
Remarks	soluble
Partition coefficient: n-octanol/water	
log Pow	2.9 to 4
Remarks	Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.
Ignition temperature	
Value	280 °C
Auto-ignition temperature	

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Remarks Not applicable

Viscosity**kinematic**

Value	0.41		mm ² /s
Temperature	25	°C	

Oxidising properties

evaluation None known

9.2. Other information**Other information**

Forms explosive mixture with air are possible.

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

Formation of explosive gas/air mixtures.

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

Species	rat		
LD50	>	5000	mg/kg
Method	OECD 401		

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

Species	rat		
LC50	>	3000	mg/kg
Method	OECD 402		

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		

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Skin corrosion/irritation

Remarks Irritating to skin.

Serious eye damage/irritation

Remarks slightly irritating (Eye)

Sensitization

Remarks No sensitisation effect known.

Sensitization (Components)

Hydrocarbons, C6, isoalkanes, <5% n-hexane
evaluation non-sensitizing

Subacute, subchronic, chronic toxicity

Remarks Chronic exposure may cause serious damage of skin.

Mutagenicity (Components)

Hydrocarbons, C6, isoalkanes, <5% n-hexane
evaluation No experimental indications on genotoxicity in vivo found.
Source Analogous

Carcinogenicity

evaluation No negative effects

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

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 Pseudokirchneriella 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.

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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 Pow 2.9 to 4

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

12.6. 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 *****Land transport ADR/RID *******14.1. UN number**

UN 1268

14.2. UN proper shipping name

PETROLEUM DISTILLATES, N.O.S. (Pentane)

14.3. Transport hazard class(es)

Class 3

Label 3

14.4. Packing group

Packing group II

Special provision 640D

Limited Quantity 1 I

Transport category 2

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS

Tunnel restriction code D/E

Marine transport IMDG/GGVSee *****14.1. UN number**

UN 1268

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14.2. UN proper shipping name

PETROLEUM DISTILLATES, N.O.S. (Pentane)

14.3. Transport hazard class(es)

Class 3

14.4. Packing group

Packing group II

14.5. Environmental hazards

Marine Pollutant

Air transport ICAO/IATA *****14.1. UN number**

UN 1268

14.2. UN proper shipping name

PETROLEUM DISTILLATES, N.O.S. (Pentane)

14.3. Transport hazard class(es)

Class 3

14.4. Packing group

Packing group II

14.5. Environmental hazards

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 3

(Germany)

Remarks Classification according to Annex 4 VwVwS

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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H372	Causes 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
Carc. 1A	Carcinogenicity, Category 1A
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Muta. 1B	Germ cell mutagenicity, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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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.