

Trade name: Aether petrolei

Substance number: 150800 Version: 7 / CH Date revised: 25.08.2025

Replaces Version: 6 / CH Print date: 26.08.25

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

1.1. Product identifier

Aether petrolei

Item No. 15080000 **Substance / product identification**

UFI D5Y8-J044-100F-DEGM

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 STOT RE 2 H373 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 ***



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H225 Highly flammable liquid and vapour.

Causes skin irritation. H315

May cause drowsiness or dizziness. H336

May cause damage to organs through prolonged or repeated exposure. H373

May be fatal if swallowed and enters airways. H304 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.

Do not breathe dust/fume/gas/mist/vapours/spray. P260

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

comfortable for breathing.

P331 Do NOT induce vomiting.

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

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

Reduced labeling (<= 125 ml)

Hazard pictograms *









Signal word ***

Danger

Hazard statements ***

H304 May be fatal if swallowed and enters airways.

Precautionary statements ***

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501.3 Disposal in compliance with local and national regulations.

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



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

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

STOT RE 1 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 eve 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



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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

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



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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)

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

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/m³

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

Duration of exposure

Route of exposure

Mode of action

Consumer

Long term
inhalative

Systemic effects

Concentration 1137 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long term
Route of exposure oral



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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/m³

Predicted No Effect Concentration (PNEC)

pentane

Type of value PNEC
Type Freshwater

Concentration 0.23 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 1.2 mg/kg

Type of value PNEC 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.



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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 colourless
Odour characteristic

Melting point

Remarks Not applicable

Boiling point or initial boiling point and boiling range

Value 44 °C

Flammability

evaluation Flammable.

Upper and lower explosive limits

Lower explosion limit 1 to 7.8 %(V)

Flash point

Value -43 °C

Auto-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



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Temperature 20 °C

Density and/or relative density

Value 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 esplosive 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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

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

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)



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

Species rat

LC50 > 3000 mg/kg

Method OECD 402

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

Species rabbit

LD50 > 2800 mg/kg

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

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

Species rat

LC50 > 23.3 mg/l

Duration of exposure 4 h

pentane

Species rat

LC50 364 mg/l

Duration of exposure 4 h

Skin corrosion/irritation

evaluation irritant

Remarks The classification criteria are met.

Skin corrosion/irritation (Components)

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

evaluation Moderately irritating

Method OECD 404

Serious eye damage/irritation

evaluation irritant

Serious eye damage/irritation (Components)

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

evaluation Moderately irritating

Method OECD 405

Sensitization

Remarks No sensitation 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

Remarks Based on available data, the classification criteria are not met.



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Mutagenicity (Components)

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

evaluation No experimental indications on genotoxicity in vivo found.

Analogous Source

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Reproduction toxicity (Components)

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

evaluation No negative effects

Source Analogous

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity (Components)

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

evaluation No negative effects

Source Analogous

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks The classification criteria are met. evaluation May cause drowsiness or dizziness.

Repeated exposure

The classification criteria are met. Remarks

May cause damage to organs through prolonged or repeated exposure evaluation

Aspiration hazard

The classification criteria are met.

Harmful: may cause lung damage if swallowed.

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 mg/l 48 h

Duration of exposure Source

Analogous

Daphnia toxicity (Components)

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

Daphnia magna **Species**

LC50 3.87 mg/l

Duration of exposure 48 h

Source Analogous



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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 28 d evaluation Readily biodegradable

Source 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

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.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

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

12.7. Other adverse effects



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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 organismes.

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 or ID number	1268	1268	1268
14.2. UN proper shipping name	PETROLEUM DISTILLATES, N.O.S. (Hydrocarbons, C6, isoalkanes,<5% n-hexane, pentane)	PETROLEUM DISTILLATES, N.O.S. (Hydrocarbons, C6, isoalkanes,<5% n-hexane, pentane)	PETROLEUM DISTILLATES N.O.S. (Hydrocarbons, C6, isoalkanes,<5% n-hexane, pentane)
14.3. Transport hazard class(es)	3	3	3
Label	***	***	**
14.4. Packing group	II	II	П
Special provision	640D		
Limited Quantity	11	11	
Transport category	2		
14.5. Environmental hazards	ENVIRONMENTALLY HAZARDOUS	Marine Pollutant	ENVIRONMENTALLY HAZARDOUS
		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 Derivation of WGK according to Annex 1 No. 5.2 AwSV

Other information ***

The product does not contain substances according to Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH) with a content of >= 0.1% w/w.

15.2. Chemical safety assessment

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

SECTION 16: Other information



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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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

Flam. Liq. 2	H225	On basis of test data
Skin Irrit. 2	H315	Calculation method
STOT SE 3	H336	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 2	H411	Calculation method

Hazard statements listed in Chapter 2/3

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.

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 2/3

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.