

| Retentionszeiten Standard VDA278 VOC und FOG 5 Komponenten je 0,1 mg/ml in n-Pentan | | | | | |
|---|--|---------------------------------------|--|--|--|
| Revision date: 14.09.2023 | Product code: 26503 | Page 1 of 12 | | | |
| SECTION 1: Identification of t | ne substance/mixture and of the comp | any/undertaking | | | |
| 1.1. Product identifier Retentionszeiten Standard | VDA278 VOC und FOG 5 Komponenten je 0 |),1 mg/ml in n-Pentan | | | |
| UFI: | AEDC-92T3-U00W-8PH2 | | | | |
| 1.2. Relevant identified uses of the | e substance or mixture and uses advised | against | | | |
| | stances as such or in preparations at industr omain (administration, education, entertainm | | | | |
| Do not use for private purpo | oses (bousehold) | | | | |
| 1.3. Details of the supplier of the Company name: Street: Place: | | | | | |
| Telephone: E-mail: | 0203/5194-0 info@analytichem.de | Telefax: 0203/5194-290 | | | |
| Contact person: E-mail: Internet: Responsible Department: | Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit | Telephone: 0203/5194-107/117 | | | |
| <u>1.4. Emergency telephone</u> number: | For Hazardous Materials [or Dangerou | C Day or Night Within USA and Canada: | | | |

Further Information

inapplicable, this product is a mixture REACH registration number see section 3

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

- Hazard components for labelling heptane; n-heptane tetradecane
 - pentane

Signal word:

Pictograms:

Danger





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Hazard statements

| H225 | Highly flammable liquid and vapour. |
|------|--|
| H336 | May cause drowsiness or dizziness. |
| H304 | May be fatal if swallowed and enters airways. |
| 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. |
|----------------|---|
| P273 | Avoid release to the environment. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with |
| | water or shower. |
| P331 | Do NOT induce vomiting. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | Chemical name | | | | | |
|----------|---|---|--|--|--|--|--|
| | EC No | EC No Index No REACH No | | | | | |
| | Classification (GB CLP Regulation) | | | | | | |
| 109-66-0 | pentane | pentane | | | | | |
| | 203-692-4 | 203-692-4 601-006-00-1 01-2119459286-30 | | | | | |
| | Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411 EUH066 | | | | | | |

Full text of H and EUH statements: see section 16.

| Specific Conc | Specific Conc. Limits, M-factors and ATE | | | | | |
|---------------|--|--|--|--|--|--|
| CAS No | EC No Chemical name | | | | | |
| | Specific Conc. Limits, M-factors and ATE | | | | | |
| 109-66-0 | 203-692-4 pentane | | | | | |
| | inhalation: LC5 | 0 = > 25,3 mg/l (vapours); oral: LD50 = > 5000 mg/kg | | | | |

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

After contact with skin

Wash immediately with: Water



Safety Data Sheet

according to UK REACH Regulation

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Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Observe risk of aspiration if vomiting occurs. Call a physician immediately.

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Consult an expert



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

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

national regulations

Further information on storage conditions

Keep cool. Protect from sunlight.

7.3. Specific end use(s)



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Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|----------|-----------|-----|-------|-----------|-----------|--------|
| 109-66-0 | Pentane | 600 | 1800 | | TWA (8 h) | WEL |

DNEL/DMEL values

| CAS No | Substance | | | | | | | |
|--|-----------------|----------------|----------|------------------|--|--|--|--|
| DNEL type | | Exposure route | Effect | Value | | | | |
| 109-66-0 | 99-66-0 pentane | | | | | | | |
| Worker DNEL, | long-term | inhalation | systemic | 3000 mg/m³ | | | | |
| Worker DNEL, long-term dermal systemic 432 mg/kg bw/ | | | | | | | | |
| Consumer DNE | EL, long-term | inhalation | systemic | 643 mg/m³ | | | | |
| Consumer DNE | EL, long-term | dermal | systemic | 214 mg/kg bw/day | | | | |
| Consumer DNE | EL, long-term | oral | systemic | 214 mg/kg bw/day | | | | |

PNEC values

| CAS No | Substance | | | | |
|--|-----------|-----------|--|--|--|
| Environmental compartment Value | | | | | |
| 109-66-0 | pentane | | | | |
| Freshwater | | 0,23 mg/l | | | |
| Freshwater (intermittent releases) 0,88 mg/l | | | | | |
| Marine water 0,23 mg/l | | | | | |
| Freshwater sediment 1,2 mg/kg | | | | | |
| Marine sediment 1,2 m | | | | | |
| Micro-organi | 3,6 mg/l | | | | |
| Soil | Soil | | | | |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles Face protection umbrella

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):



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By long-term hand contact KCL 741 Dermatril® L NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact KCL 741 Dermatril® L NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Take off immediately all contaminated clothing and wash it before reuse. Wear fire resistant or flame retardant clothing. Wash hands and face before breaks and after work and take a shower if necessary. Draw up and observe skin protection programme.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Dhysical state: | | |
|--|-------------------|-------------------------|
| Physical state: | Liquid | |
| Colour: | colourless | |
| Odour: | characteristic | |
| Odour threshold: | No data available | |
| Melting point/freezing point: | | No data available |
| Flammability: | | not applicable |
| | | not applicable |
| Lower explosion limits: | | No data available |
| Upper explosion limits: | | No data available |
| Flash point: | | -48 °C |
| Auto-ignition temperature: | | No data available |
| Decomposition temperature: | | No data available |
| pH-Value: | | 5,0 |
| Viscosity / kinematic: | | No data available |
| Water solubility: | | No |
| Solubility in other solvents | | |
| No data available | | |
| Partition coefficient n-octanol/water: | | No data available |
| Vapour pressure: | | No data available |
| Vapour pressure: | | No data available |
| Density: | | 0,626 g/cm ³ |
| Bulk density: | | No data available |
| | | |



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| Relative vapour density: | No data available | | | | | | |
| 9.2. Other information | | | | | | | |
| Information with regard to physical haz | ard classes | | | | | | |
| Explosive properties | | | | | | | |
| Vapours are heavier than air, spread | along floors and form explosive mixtures with air. | | | | | | |
| Sustaining combustion: | Sustaining combustion | | | | | | |
| Self-ignition temperature | | | | | | | |
| Solid: | not applicable | | | | | | |
| Gas: | not applicable | | | | | | |
| Oxidizing properties | | | | | | | |
| Not oxidising. | | | | | | | |
| Other safety characteristics | | | | | | | |
| Evaporation rate: | No data available | | | | | | |
| Solvent separation test: | No data available | | | | | | |
| Solvent content: | No data available | | | | | | |
| Solid content: | 0 | | | | | | |
| Sublimation point: | No data available | | | | | | |
| Softening point: | No data available | | | | | | |
| Pour point: | No data available | | | | | | |
| | No data available | | | | | | |
| Viscosity / dynamic: | No data available | | | | | | |
| Flow time: | No data available | | | | | | |
| Further Information | | | | | | | |
| No data available | | | | | | | |

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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| CAS No | Chemical name | Chemical name | | | | | | | | |
|----------|-------------------------|---|--------|-----|----------------------------|--------------------|--|--|--|--|
| | Exposure route | Exposure route Dose Species Source Method | | | | | | | | |
| 109-66-0 | pentane | pentane | | | | | | | | |
| | oral | LD50 mg/kg | > 5000 | Rat | Study report (1982) | OECD Guideline 423 | | | | |
| | inhalation (4 h) vapour | LC50 mg/l | > 25,3 | Rat | Secondary source (1993) | OECD Guideline 403 | | | | |

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (pentane)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

May be fatal if swallowed and enters airways.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the mixture itself.

Further information

There are no data available on the mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.



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| CAS No | Chemical name | | | | | | | |
|----------|--------------------------|---------------|-------|-----------|------------------------------------|---|---|--|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source | Method | |
| 109-66-0 | pentane | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 4,26 | 96 h | Oncorhynchus mykiss | Study report (1997) | OECD Guideline 203 | |
| | Acute algae toxicity | ErC50 mg/l | 20,33 | 72 h | Pseudokirchneriella subcapitata | CONCAWE, Brussels, Belgium (2009) | The aquatic toxicity was estimated by a | |
| | Acute crustacea toxicity | EC50 mg/l | 48,11 | 48 h | Daphnia magna | CONCAWE, Brussels, Belgium (2009) | The aquatic toxicity was estimated by a | |
| | Fish toxicity | NOEC mg/l | 6,165 | 28 d | Oncorhynchus mykiss | CONCAWE, Brussels, Belgium (2009) | The aquatic toxicity was estimated by a | |
| | Crustacea toxicity | NOEC mg/l | 10,76 | 21 d | Daphnia magna | CONCAWE, Brussels, Belgium (2009) | The aquatic toxicity was estimated by a | |

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|---------------|---------|
| 109-66-0 | pentane | 3,45 |
| | | |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|----------|---------------|-----|---------------------|----------------------|
| 109-66-0 | pentane | 171 | Pimephales promelas | QSAR in Environmenta |

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. There are no data available on the mixture itself.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.



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The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

| Land transport (ADR/RID) | |
|--|-----------------|
| 14.1. UN number or ID number: | UN 1265 |
| 14.2. UN proper shipping name: | Pentanes |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| Classification code: | F1 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |
| Inland waterways transport (ADN) | |
| 14.1. UN number or ID number: | UN 1265 |
| 14.2. UN proper shipping name: | Pentanes |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| Classification code: | F1 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| Marine transport (IMDG) | |
| 14.1. UN number or ID number: | UN 1265 |
| 14.2. UN proper shipping name: | Pentanes |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | 1 |
| Hazard label: | 3 |
| Special Provisions: | 5 |
| Limited quantity: | - 11 |
| | • = |
| Excepted quantity: | E2 |
| EmS: | F-E, S-D |
| Air transport (ICAO-TI/IATA-DGR) | |
| 14.1. UN number or ID number: | UN 1265 |
| 14.2. UN proper shipping name: | PENTANES liquid |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| Limited quantity Passenger: | 1 L |
| Passenger LQ: | Y341 |
| Excepted quantity: | E2 |
| IATA-packing instructions - Passenger: | |
| IATA-max. quantity - Passenger: | |
| IATA-packing instructions - Cargo: | |
| IATA-max. quantity - Cargo: | |
| 14.5. Environmental hazards | |
| ENVIRONMENTALLY HAZARDOUS: | Voo |
| | Yes |
| Danger releasing substance: | pentane |
| 14.6. Special precautions for user | |



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Warning: Combustible liquid.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

| Restrictions on use (REACH, annex XVII): | |
|--|---|
| Entry 3, Entry 40 | |
| Information according to 2012/18/EU (SEVESO III): | E2 Hazardous to the Aquatic Environment |
| Additional information: | P5c |
| National regulatory information | |
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. |
| Water hazard class (D): | 2 - obviously hazardous to water |
| 5.2. Chemical safety assessment | |

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 9.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% Flam. Liq: Flammable liquids Asp. Tox: Aspiration hazard STOT SE: Specific target organ toxicity - single exposure Aquatic Chronic: Chronic aquatic hazard

Relevant H and EUH statements (number and full text)

| H225 | Highly flammable liquid and vapour. |
|--------|---|
| H304 | May be fatal if swallowed and enters airways. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)