

Hexane-(n) a.r.

Revision: 13.03.2026

Product code: AC11.00333

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Hexane-(n) a.r.

Further trade names

CL00.0802

Substance name: n-hexane
REACH Registration Number: 01-2119480412-44-XXXX
CAS No: 110-54-3
Index No: 601-037-00-0
EC No: 203-777-6

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

Reagents and laboratory chemicals
Only for laboratory and analysis purposes.

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet**Details of the supplier of the safety data sheet**

Company name: AnalytiChem Services, Unipessoal, Lda
Street: Rua de Júlio Dinis 676 7º
Place: N-4050-320 Porto
Telephone: +351 226002917
E-mail: info@analytichem.com
Contact person: SDS service department
E-mail: SDS@analytichem.com
Internet: www.analytichem.com
Responsible Department: SDS service department

Supplier or manufacturer details

Company name: AnalytiChem Belgium NV
Street: Industriezone "De Arend" 2
Place: B-8210 Zedelgem
Telephone: +32 50 28 83 20
E-mail: info.be@analytichem.com
Contact person: SDS service department
E-mail: SDS@analytichem.com

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Responsible Department:

AnalytiChem:

EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20

EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200

EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848

UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500

USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378

Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701

Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333

+44 20 3807 3798 (CHEMTREC)

1.4. Emergency telephone number:**Further Information**

No data available

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 2; H225

Repr. 2; H361f

Skin Irrit. 2; H315

STOT SE 3; H336

STOT RE 1; H372

Asp. Tox. 1; H304

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008**

Signal word:

Danger

Pictograms:

**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.

H361f

Suspected of damaging fertility.

H372

Causes damage to organs (nervous system) through prolonged or repeated exposure if inhaled.

H411

Toxic to aquatic life with long lasting effects.

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Precautionary statements

| | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe mist/vapours/spray. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P331 | Do NOT induce vomiting. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients**3.1. Substances**

| | |
|-------------------|-------------|
| Sum formula: | C6H14 |
| Molecular weight: | 86.18 g/mol |

Relevant ingredients

| CAS No | Chemical name | Quantity | | |
|----------|--|--------------|-----------------------|--|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 110-54-3 | n-hexane | 100 % | | |
| | 203-777-6 | 601-037-00-0 | 01-2119480412-44-XXXX | |
| | Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 2; H225 H361f H315 H336 H372 H304 H411 | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|----------|--|---------------|----------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 110-54-3 | 203-777-6 | n-hexane | 100 % |
| | inhalation: LC50 = 73860 mg/l (vapours); dermal: LD50 = > 2000 mg/kg | | |

Further Information

SVHC substance.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated, saturated clothing immediately.

After inhalation

Provide fresh air.

Call a physician immediately.

After contact with skin

Wash immediately with: Water

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

Call a physician immediately.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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

Protect uninjured eye.

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After ingestion

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

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

Narcotic effects, Corneal opacity.
Vomiting, Gastrointestinal complaints
Causes eye irritation., Headache
May cause drowsiness or dizziness.

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**

Carbon dioxide (CO₂)
Foam
Extinguishing powder

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids
Vapours are heavier than air, spread along floors and form explosive mixtures with air.
Hazardous combustion products
In case of fire may be liberated:
Carbon dioxide
Carbon monoxide
Beware of reignition.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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**

Vapours can form explosive mixtures with air. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

For non-emergency personnel

Provide adequate ventilation.
Use personal protection equipment.
Avoid contact with skin, eyes and clothes.
Remove persons to safety.
To follow: Emergency procedures
Do not breathe mist/vapours/spray.

For emergency responders

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

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6.2. Environmental precautions

Do not allow to enter into surface water or drains.
Explosion risk.

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).
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Collect in closed and suitable containers for disposal.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation.
Do not breathe 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.
Use personal protection equipment.
Avoid contact with skin, eyes and clothes.
Do not breathe dust/fume/gas/mist/vapours/spray.
Provide adequate ventilation.
Use extractor hood (laboratory).
Avoid: aerosol or mist formation

Advice on protection against fire and explosion

Take precautionary measures against static discharges.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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).

Advice on general occupational hygiene

Keep away from: Food and feedingstuffs
When using do not eat, drink, smoke, sniff.
Provide eye shower and label its location conspicuously

Further information on handling

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

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed.
Protect against: Radiant heat.

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Keep away from sources of ignition - No smoking.

Hints on joint storage

National regulations

Further information on storage conditions

Store in a dry place.

Store in a well-ventilated place.

7.3. Specific end use(s)

Reagents and laboratory chemicals

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|-----------|-----|-------------------|-----------|-----------|--------|
| 110-54-3 | n-Hexane | 20 | 72 | | TWA (8 h) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|-----------|----------------|----------|----------------------|
| 110-54-3 | n-hexane | | | |
| Worker DNEL, long-term | | inhalation | systemic | 75 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 11 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 16 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 5,3 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 4 mg/kg bw/day |

Additional advice on limit values

Observe in addition any national regulations!

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment**Eye/face protection**

goggles

Face protection umbrella

Hand protection

Tested protective gloves must be worn

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.

Skin protection

Wear suitable protective clothing.

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

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

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Respiratory protection

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

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

Explosion risk.

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

| | |
|---|------------------------|
| Physical state: | Liquid |
| Colour: | clear |
| Odour: | like: Hydrocarbons |
| Odour threshold: | No data available |
| Melting point/freezing point: | -95.35 (1013 hPa) °C |
| Boiling point or initial boiling point and boiling range: | 69 (1013 hPa) °C |
| Flammability: | No data available |
| Lower explosion limits: | 1.0 vol. % |
| Upper explosion limits: | 8.1 vol. % |
| Flash point: | -22 °C |
| Auto-ignition temperature: | 225 °C |
| Decomposition temperature: | No data available |
| pH-Value: | 7 |
| Viscosity / kinematic: | No data available |
| Water solubility: (at 25 °C) | 0.01 g/l |
| Solubility in other solvents | No data available |
| Dissolution rate: | No data available |
| Partition coefficient n-octanol/water: | No data available |
| Dispersion stability: | No data available |
| Vapour pressure: (at 20 °C) | 175.98 hPa |
| Vapour pressure: | No data available |
| Density (at 25 °C): | 0.66 g/cm ³ |
| Relative density: | No data available |
| Bulk density: | No data available |
| Relative vapour density: | No data available |
| Particle characteristics: | No data available |

9.2. Other information**Information with regard to physical hazard classes****Explosive properties**

Vapours can form explosive mixtures with air.

Sustained combustibility: No data available

Self-ignition temperature

Solid: No data available

Gas: No data available

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Oxidizing properties
No data available

Other safety characteristics

| | |
|------------------------------------|-------------------|
| Evaporation rate: | No data available |
| Solvent separation test: | No data available |
| Solvent content: | 100% |
| Solid content: | 0% |
| Sublimation point: | No data available |
| Softening point: | No data available |
| Pour point: | No data available |
| No data available: | |
| Viscosity / dynamic: (at 25 °C) | 0.3 mPa·s |
| Flow time: | No data available |

Further Information

No data available

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

Vapours can form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent, strong, Nitrogen oxides (NOx), peroxides, for example hydrogen peroxide

10.4. Conditions to avoid

Radiant heat.

10.5. Incompatible materials

Rubber articles
Plastic articles

10.6. Hazardous decomposition products

In case of fire may be liberated:
SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information**11.1. Information on hazard classes****Acute toxicity**

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

| CAS No | Chemical name | | | | |
|----------|-------------------------|-------------------|---------|--|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 110-54-3 | n-hexane | | | | |
| | dermal | LD50 > 2000 mg/kg | Rabbit | Study report (1982) | |
| | inhalation (4 h) vapour | LC50 73860 mg/l | Rat | Industrial Medicine, Vol. 39, No. 5, May | OECD Guideline 403 |

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Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: 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

Suspected of damaging fertility. (n-hexane)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

STOT-single exposure

May cause drowsiness or dizziness. (n-hexane)

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (n-hexane)

Aspiration hazard

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards**Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

Other information

Narcotic effects, Corneal opacity.

Vomiting, Gastrointestinal complaints

Causes eye irritation., Headache

May cause drowsiness or dizziness.

Further information

No data available

SECTION 12: Ecological information**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

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| CAS No | Chemical name | | | | | | |
|----------|--------------------------|---------------|-----------|---------|------------------------------------|---|---|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method | |
| 110-54-3 | n-hexane | | | | | | |
| | Acute algae toxicity | ErC50 mg/l | 9,285 | 72 h | Pseudokirchneriella subcapitata | CONCAWE, Brussels, Belgium (2009) | The aquatic toxicity was estimated by a |
| | Acute crustacea toxicity | EC50 mg/l | 21,85 | 48 h | Daphnia magna | CONCAWE, Brussels, Belgium (2009) | The aquatic toxicity was estimated by a |
| | Fish toxicity | NOEC | 2,8 mg/l | 28 d | Oncorhynchus mykiss | CONCAWE, Brussels, Belgium (2009) | The aquatic toxicity was estimated by a |
| | Crustacea toxicity | NOEC mg/l | 4,888 | 21 d | Daphnia magna | CONCAWE, Brussels, Belgium (2009) | The aquatic toxicity was estimated by a |

12.2. Persistence and degradability

Readily biodegradable (according to OECD criteria).
(98% / 28d aerob)

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|----------|---------------|---------|
| 110-54-3 | n-hexane | 4 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|----------|---------------|---------|---------------------|----------------------|
| 110-54-3 | n-hexane | 501,187 | Pimephales promelas | QSAR in Environmenta |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Discharge into the environment must be avoided.

Further information

Do not allow to enter into surface water or drains.

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 allow to enter into surface water or drains.

Contaminated packaging

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

SECTION 14: Transport information

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Land transport (ADR/RID)

| | |
|--|---------|
| 14.1. UN number or ID number: | UN 1208 |
| 14.2. UN proper shipping name: | HEXANES |
| 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 |
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

Inland waterways transport (ADN)

| | |
|--|---------|
| 14.1. UN number or ID number: | UN 1208 |
| 14.2. UN proper shipping name: | HEXANES |
| 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 1208 |
| 14.2. UN proper shipping name: | HEXANES |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| Special Provisions: | - |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| EmS: | F-E, S-D |

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|---------|
| 14.1. UN number or ID number: | UN 1208 |
| 14.2. UN proper shipping name: | HEXANES |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| Limited quantity Passenger: | 1 L |
| Passenger LQ: | Y341 |
| Excepted quantity: | E2 |
| IATA-packing instructions - Passenger: | 353 |
| IATA-max. quantity - Passenger: | 5 L |
| IATA-packing instructions - Cargo: | 364 |
| IATA-max. quantity - Cargo: | 60 L |

14.5. Environmental hazards

| | |
|-----------------------------|----------|
| ENVIRONMENTALLY HAZARDOUS: | Yes |
| Danger releasing substance: | n-hexane |
| Marine pollutant: | P |

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

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No dangerous good in sense of this transport regulation.

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, Entry 75

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

Additional information:

P5c

Additional information

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.

National regulatory information

Water hazard class (D): 3 - highly hazardous to water

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3.

Abbreviations and acronyms

Flam. Liq. 2: Flammable liquids, hazard category 2

Asp. Tox. 1: Aspiration hazard, hazard category 1

Skin Irrit. 2: Skin irritation, hazard category 2

Repr. 2: Reproductive toxicity, hazard category 2

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

STOT RE 1: Specific target organ toxicity - repeated exposure, hazard category 1

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2

Relevant H and EUH statements (number and full text)

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.

H372 Causes damage to organs (nervous system) through prolonged or repeated exposure if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.