



Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Cyclon Brake Cleaner Spray

Version number: 2.1
Replaces version of: 2020-12-16 (1)

Revision: 2023-04-07

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

1.1 Product identifier

Trade name

Cyclon Brake Cleaner Spray

Unique formula identifier (UFI)

7800-90PC-A003-PXDW

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

Relevant identified uses

Brake cleaner
Detergent
Professional use
Consumer use

1.3 Details of the supplier of the safety data sheet

Cyclon B.V.
Scheltseweg 4c
5374 EB Schaijk
Netherlands

Telephone: (+31) 085 0204 122

e-mail: sales@cyclon.nl

Website: www.cyclon.nl

e-mail (competent person)

sales@cyclon.nl

1.4 Emergency telephone number

Emergency information service

(+31) 085 0204 122

This number is only available during the following office hours: Mon-Fri 09:00 - 16:30

| Poison centre | | |
|----------------|---|--|
| Country | Name | Telephone |
| United Kingdom | National Poisons Information Service (NPIS) | 0344-8920111 (medical professionals only) |
| United Kingdom | NHS (general public) | non-emergency: 111 or a doctor; emergency: 999 |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (acc. to GB CLP)

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| 2.3 | aerosols | 1 | Aerosol 1 | H222,H229 |
| 3.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.8D | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| 4.1A | hazardous to the aquatic environment - acute hazard | 1 | Aquatic Acute 1 | H400 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | 2 | Aquatic Chronic 2 | H411 |

For full text of H-phrases: see SECTION 16



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The most important adverse physicochemical, human health and environmental effects
Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling (acc. to GB CLP)

- signal word Danger

- pictograms

GHS02, GHS07,
GHS09



- hazard statements

| | |
|------|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H410 | Very toxic to aquatic life with long lasting effects. |

- precautionary statements

| | |
|-----------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P312 | Call a POISON CENTRE/doctor if you feel unwell. |
| P391 | Collect spillage. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

- hazardous ingredients for labelling

Contains: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C6, isoalkanes, <5% n-hexane; n-hexane.

Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers

Extremely flammable. Keep out of reach of children. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

Does not contain any substances that are assessed to be PBT or vPvB $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.



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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|--|--|-------|--|---|--------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | EC No 927-510-4 | ≤ 50 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 |     | |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | EC No 931-254-9 | ≤ 40 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 |     | |
| Butane | CAS No 106-97-8 EC No 203-448-7 Index No 601-004-00-0 | ≤ 20 | Flam. Gas 1A / H220 Press. Gas C / H280 |   | C U |
| Propane | CAS No 74-98-6 EC No 200-827-9 Index No 601-003-00-5 | ≤ 8 | Flam. Gas 1A / H220 Press. Gas C / H280 |   | U(b) |
| n-hexane | CAS No 110-54-3 EC No 203-777-6 Index No 601-037-00-0 | ≤ 2 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Repr. 2 / H361f STOT SE 3 / H336 STOT RE 1 / H372 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 |     | |
| Cyclohexane; Hexahydrobenzene | CAS No 110-82-7 EC No 203-806-2 Index No 601-017-00-1 | ≤ 0.4 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 |     | |

Notes

- C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged
- U: When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.



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| Name of sub-stance | Identifier | Specific Conc. Limits | M-Factors | ATE | Exposure route |
|--------------------|--|-------------------------------|-----------|-----|----------------|
| n-hexane | CAS No 110-54-3 EC No 203-777-6 | STOT RE 2; H373: C \geq 5 % | - | - | |

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. Call a POISON CENTER/doctor.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray; Dry extinguishing powder;
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

During fire hazardous fumes/smoke could be produced.



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5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Protect from sunlight.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.



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Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight. Frost.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

There is no additional information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | |
|--|----------------------------------|----------|------------|-----------|-------------|------------|--------------|----------|-----------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Notation | Source |
| GB | hydrocarbon mixture (RCP method) | | WEL | | 75 | | 150 | | EH40/2005 |
| GB | butane | 106-97-8 | WEL | 600 | 1,450 | 750 | 1,810 | | EH40/2005 |
| GB | n-hexane | 110-54-3 | WEL | 20 | 72 | | | | EH40/2005 |
| GB | cyclohexane | 110-82-7 | WEL | 100 | 350 | 300 | 1,050 | | EH40/2005 |
| GB | carbon dioxide | 124-38-9 | WEL | 5,000 | 9,150 | 15,000 | 27,400 | | EH40/2005 |

Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

| Relevant DNELs of components of the mixture | | | | | | |
|--|--------|----------|------------------|------------------------------------|-------------------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | DNEL | 2,085 mg/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | DNEL | 300 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | DNEL | 447 mg/m³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | DNEL | 149 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |



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| Relevant DNELs of components of the mixture | | | | | | |
|--|----------|----------|-------------------------|------------------------------------|-------------------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | DNEL | 149 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | DNEL | 5,306 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | DNEL | 13,964 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | DNEL | 1,131 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | DNEL | 1,377 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | DNEL | 1,301 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |
| n-hexane | 110-54-3 | DNEL | 75 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| n-hexane | 110-54-3 | DNEL | 11 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| n-hexane | 110-54-3 | DNEL | 16 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| n-hexane | 110-54-3 | DNEL | 5.3 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| n-hexane | 110-54-3 | DNEL | 4 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | DNEL | 700 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | DNEL | 1,400 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | DNEL | 700 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | DNEL | 1,400 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | DNEL | 2,016 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | DNEL | 206 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | DNEL | 412 mg/m ³ | human, inhalatory | consumer (private households) | acute - systemic effects |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | DNEL | 206 mg/m ³ | human, inhalatory | consumer (private households) | chronic - local effects |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | DNEL | 412 mg/m ³ | human, inhalatory | consumer (private households) | acute - local effects |



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| Relevant DNELs of components of the mixture | | | | | | |
|---|----------|----------|------------------------|------------------------------------|-------------------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | DNEL | 1,186 mg/ kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | DNEL | 59.4 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |

| Relevant PNECs of components of the mixture | | | | | | |
|---|----------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | PNEC | 44.7 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | PNEC | 4.47 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | PNEC | 3.24 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | PNEC | 3.6 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | PNEC | 0.36 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | PNEC | 0.694 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection

Skin protection



Chemical protective clothing.

- hand protection



Wear suitable gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- type of material

Nitrile rubber

- material thickness

Use gloves with a minimum material thickness: $\geq 0,38$ mm.



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- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

During spraying wear suitable respiratory equipment. Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | aerosol (spray aerosol) |
| Colour | colourless |
| Odour | characteristic |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | -57 – 95 °C at 1,013 hPa |
| Flammability | flammable aerosol in accordance with GHS criteria |
| Lower and upper explosion limit | LEL: 1.1 vol% UEL: 9.5 vol% |
| Flash point | -20 °C |
| Auto-ignition temperature | 365 °C (auto-ignition temperature (liquids and gases)) |
| Decomposition temperature | no data available |
| pH (value) | technically impossible to provide |
| Kinematic viscosity | 1 mm ² /s at 40 °C |
| Dynamic viscosity | 1 mPa s at 20 °C |
| Solubility | not determined |

| | |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

| | |
|-----------------|----------------|
| Vapour pressure | not determined |
|-----------------|----------------|



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Density and/or relative density

| | |
|-------------------------|---|
| Density | 0.72 kg/l at 20 °C |
| Relative vapour density | information on this property is not available |

| | |
|--------------------------|------------------------|
| Particle characteristics | not relevant (aerosol) |
|--------------------------|------------------------|

9.2 Other information

There is no additional information.

Information with regard to physical hazard classes

Aerosols

| | |
|--------------------------|---------|
| - components (flammable) | 97.57 % |
|--------------------------|---------|

Other safety characteristics

| | |
|--------------------|------|
| Propellant content | 28 % |
|--------------------|------|

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

10.5 Incompatible materials

Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

- acute toxicity of components of the mixture

| Acute toxicity of components of the mixture | | | | | |
|--|----------|--------------------|----------|-------------------------------|---------|
| Name of substance | CAS No | Exposure route | Endpoint | Value | Species |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | inhalation: vapour | LC50 | >23.3 mg/l/4h | rat |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | dermal | LD50 | >2,800 – 3,100 mg/kg | rat |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | oral | LD50 | >5,000 mg/kg | rat |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | inhalation: vapour | LC50 | >32,880 mg/m ³ /4h | rat |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | dermal | LD50 | >2,000 mg/kg | rabbit |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.



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11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|----------|-------------------|----------------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | LL50 | $>13.4 \text{ mg/l}$ | fish | 96 h |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | EL50 | 12 mg/l | aquatic invertebrates | 24 h |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | EC50 | 0.64 mg/l | aquatic invertebrates | 48 h |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | NOELR | 3 mg/l | algae | 24 h |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | LL50 | 18.27 mg/l | fish | 96 h |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | EL50 | 31.9 mg/l | aquatic invertebrates | 48 h |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | NOELR | 3.034 mg/l | algae | 72 h |
| Butane | 106-97-8 | LC50 | 49.9 mg/l | fish | 96 h |
| Butane | 106-97-8 | EC50 | 19.37 mg/l | algae | 96 h |
| Propane | 74-98-6 | LC50 | 49.9 mg/l | fish | 96 h |
| Propane | 74-98-6 | EC50 | 19.37 mg/l | algae | 96 h |
| n-hexane | 110-54-3 | LL50 | 12.51 mg/l | fish | 96 h |
| n-hexane | 110-54-3 | EL50 | 21.85 mg/l | aquatic invertebrates | 48 h |
| n-hexane | 110-54-3 | NOELR | 2.077 mg/l | algae | 72 h |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | LC50 | 4.53 mg/l | fish | 96 h |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | EL50 | 2.331 mg/l | fish | 72 h |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | EC50 | 0.9 mg/l | aquatic invertebrates | 48 h |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | ErC50 | 9.317 mg/l | algae | 72 h |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | LL50 | 35.61 mg/l | microorganisms | 72 h |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | NOEC | 0.952 mg/l | algae | 72 h |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | growth (EbCx) 10% | 6.821 mg/l | microorganisms | 72 h |



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Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|--|----------|----------|-------------|-----------------------|---------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | EL50 | 1.6 mg/l | aquatic invertebrates | 21 d |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | EC50 | 0.23 mg/l | aquatic invertebrates | 21 d |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | NOELR | 1.534 mg/l | fish | 28 d |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | NOEC | 0.17 mg/l | aquatic invertebrates | 21 d |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | LOEC | 0.32 mg/l | aquatic invertebrates | 21 d |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | NOELR | 4.089 mg/l | fish | 28 d |
| n-hexane | 110-54-3 | EL50 | >1,000 mg/l | microorganisms | 15 h |
| n-hexane | 110-54-3 | NOELR | 2.8 mg/l | fish | 28 d |

12.2 Persistence and degradability

Degradability of components of the mixture

| Name of substance | CAS No | Process | Degradation rate | Time | Method |
|--|----------|------------------|------------------|------|--------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | oxygen depletion | 83 % | 16 d | |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | oxygen depletion | 83 % | 10 d | |
| n-hexane | 110-54-3 | oxygen depletion | 83 % | 10 d | |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | oxygen depletion | 77 % | 28 d | |

12.3 Bioaccumulative potential

Bioaccumulative potential of components of the mixture

| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
|--|----------|---------------|---------------------------|----------|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | 501.2 | 3.6 (pH value: 7, 20 °C) | |
| Butane | 106-97-8 | | 1.09 (pH value: 7, 20 °C) | |
| Propane | 74-98-6 | | 2.31 (pH value: 7, 20 °C) | |
| n-hexane | 110-54-3 | ≥26.26 – ≤316 | 4 (pH value: 7, 20 °C) | |
| Cyclohexane; Hexahydrobenzene | 110-82-7 | 167 | 3.44 (pH value: 7, 25 °C) | |

12.4 Mobility in soil

Data are not available.



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12.5 Results of PBT and vPvB assessment

Does not contain any substances that are assessed to be PBT or vPvB $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packages

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

| | |
|-----------|---------|
| ADR/RID | UN 1950 |
| IMDG-Code | UN 1950 |
| ICAO-TI | UN 1950 |

14.2 UN proper shipping name

| | |
|-----------|---------------------|
| ADR/RID | AEROSOLS flammable |
| IMDG-Code | AEROSOLS |
| ICAO-TI | Aerosols, flammable |

14.3 Transport hazard class(es)

| | |
|-----------|---------|
| ADR/RID | 2 (2.1) |
| IMDG-Code | 2.1 |
| ICAO-TI | 2.1 |

14.4 Packing group

not assigned

14.5 Environmental hazards

hazardous to the aquatic environment

| | |
|---|--|
| Environmentally hazardous substance (aquatic environment) | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics |
|---|--|

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

No data available.



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Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - additional information

| | |
|---------------------|--------------------|
| Classification code | 5F |
| Danger label(s) | 2.1, fish and tree |



| | |
|-------------------------------|--|
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Special provisions (SP) | 190, 327, 344, 625 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Tunnel restriction code (TRC) | D |

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - additional information

| | |
|---------------------|--------------------|
| Classification code | 5F |
| Danger label(s) | 2.1, fish and tree |



| | |
|--------------------------|--------------------------|
| Environmental hazards | yes (hazardous to water) |
| Special provisions (SP) | 190, 327, 344, 625 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Hazard identification No | 23 |

International Maritime Dangerous Goods Code (IMDG) - additional information

| | |
|------------------|--|
| Marine pollutant | yes (hazardous to the aquatic environment) |
| Danger label(s) | 2.1, fish and tree |



| | |
|--------------------------|----------------------------------|
| Special provisions (SP) | 63, 190, 277, 327, 344, 381, 959 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 1 L |
| EmS | F-D, S-U |
| Stowage category | - |



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International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 2.1



Special provisions (SP) A145, A167

Excepted quantities (EQ) E0

Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

| 2012/18/EU (Seveso III) | | | |
|-------------------------|---|---|-------|
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
| P3a | flammable aerosols (containing Flam. Gas or Flam. Liq., cat. 1) | 150 500 | 46) |

Notation

46) 'flammable' aerosols category 1 or 2, containing flammable gases category 1 or 2 or flammable liquids category 1

Note: qualifying quantity = net

Water Framework Directive (WFD)

| List of pollutants (WFD) | | | | |
|--------------------------|---|--------|-----------|---------|
| Name of substance | Name acc. to inventory | CAS No | Listed in | Remarks |
| n-hexane | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment | | a) | |

Legend

A) Indicative list of the main pollutants

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on detergents



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| Labelling of contents | |
|-----------------------|------------------------|
| Wt% | Constituents |
| ≥30% | aliphatic hydrocarbons |

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

Restrictions according to GB REACH, Annex 17

| Dangerous substances with restrictions (GB REACH, Annex 17) | | | |
|---|--|---------------------------|----|
| Name | Name acc. to inventory | Conditions of restriction | No |
| Butane | flammable / pyrophoric | R40 | 40 |
| n-hexane | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3 | 3 |
| n-hexane | flammable / pyrophoric | R40 | 40 |
| Cyclohexane; Hexahydrobenzene | Cyclohexane | R57 | 57 |
| Cyclohexane; Hexahydrobenzene | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3 | 3 |
| Cyclohexane; Hexahydrobenzene | flammable / pyrophoric | R40 | 40 |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3 | 3 |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | flammable / pyrophoric | R40 | 40 |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3 | 3 |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | flammable / pyrophoric | R40 | 40 |

Legend

R3

- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.
- Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil
 - or even sucking the wick of lamps
 - may lead to life-threatening lung damage';



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Legend

- (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';
- (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the Agency.
- R40
1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
- metallic glitter intended mainly for decoration,
 - artificial snow and frost,
 - 'whoopie' cushions,
 - silly string aerosols,
 - imitation excrement,
 - horns for parties,
 - decorative flakes and foams,
 - artificial cobwebs,
 - stink bombs.
2. Without prejudice to the application of other legislation on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
- 'For professional users only'.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (***).
4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
- (***) OJ L 147, 9.6.1975, p. 40.
- R57
1. Shall not be placed on the market for the first time after 27 June 2010 for supply to the general public, as a constituent of neoprene-based contact adhesives in concentrations equal to or greater than 0.1 % by weight in package sizes greater than 350 g.
2. Neoprene-based contact adhesives containing cyclohexane and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.
3. Without prejudice to other legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that neoprene-based contact adhesives containing cyclohexane in concentrations equal to or greater than 0.1 % by weight that are placed on the market for supply to the general public after 27 December 2010 are visibly, legibly and indelibly marked as follows:
- This product is not to be used under conditions of poor ventilation.
 - This product is not to be used for carpet laying.'

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) |
|---------|---------------------------|--|
| 3.2 | | Mixtures: change in the listing (table) |
| 16 | | List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table) |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------------|---|
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| Aquatic Acute | Hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard |
| Asp. Tox. | Aspiration hazard |



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| Abbr. | Descriptions of used abbreviations |
|------------|---|
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BOD | Biochemical Oxygen Demand |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| COD | Chemical oxygen demand |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EL50 | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| Flam. Gas | Flammable gas |
| Flam. Liq. | Flammable liquid |
| GB CLP | The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended) |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| LEL | Lower explosion limit (LEL) |



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| Abbr. | Descriptions of used abbreviations |
|-------------|---|
| LL50 | Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality |
| LOEC | Lowest Observed Effect Concentration |
| log KOW | n-Octanol/water |
| NLP | No-Longer Polymer |
| NOEC | No Observed Effect Concentration |
| NOELR | No Observed Effect Loading Rate |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| Press. Gas | Gas under pressure |
| RCP | Reciprocal calculation procedure |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| Repr. | Reproductive toxicity |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| STEL | Short-term exposure limit |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |
| TWA | Time-weighted average |
| UEL | Upper explosion limit (UEL) |
| vPvB | Very Persistent and very Bioaccumulative |
| WEL | Workplace exposure limit |

Key literature references and sources for data

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).



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List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|-------|---|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| 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 through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.