# SAFETY DATA SHEET ACCORDING TO REGULATION (EC) 1907/2006

**Product name:** **beko Intensivreiniger**

**Creation date:** **11.10.2021**, **Revision:** **12.07.2024**, **version:** **1.0**

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Product name**

beko Intensivreiniger

**UFI:**

766W-N0N6-500M-3FQR

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

**Relevant identified uses**

Cleaning agent.

**Uses advised against**

No information.

### 1.3 Details of the supplier of the safety data sheet

**Supplier**

beko GmbH
Rappenfeldstr. 5
D-86653 Monheim
Tel. +49 (0) 9091 90898-0
info@beko-group.com

### 1.4 Emergency Telephone Number

**Emergency**

Poison Control Center Mainz - 24 hour emergency service - phone: +49 (0) 6131/19240

**Supplier**

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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

Aerosol 1; H222 Extremely flammable aerosol.
Aerosol 1; H229 Pressurised container: May burst if heated.
Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.
STOT SE 3; H336 May cause drowsiness or dizziness.
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP]**

**Signal word: DANGER**

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
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.
P273 Avoid release to the environment.
P302 + P352 + P362 + P364 IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F.
P501 Dispose of contents/container in accordance with national regulation.

Contains:
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

### 2.3 Other hazards

**PBT/vPvB**
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Endocrine disrupting properties**
The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

**Additional information**
No information.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

For mixtures see 3.2.

### 3.2 Mixtures

| Name | CAS EC Index Reach | % | Classification according to Regulation (EC) No 1272/2008 (CLP) | Specific Concentration Limits | Notes for substances |
|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 64742-49-0<br>927-510-4<br>-<br>01-2119475515-33 | 50-100 | Flam. Liq. 2; H225<br>Asp. Tox. 1; H304<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Aquatic Chronic 2; H411 | / | / |

| | | | | | |
|---|---|---|---|---|---|
| **acetone** | 67-64-1<br>200-662-2<br>606-001-00-8<br>01-2119471330-49 | 10-25 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>EUH066 | / | / |
| **isobutane** | 75-28-5<br>200-857-2<br>601-004-00-0<br>01-2119485395-27 | 2,5-10 | Flam. Gas 1; H220<br>Press. Gas; H280 | / | C, S, U |
| **carbon dioxide** | 124-38-9<br>204-696-9<br>- | 2,5-10 | Press. Gas; H280 | / | U |
| **propane** | 74-98-6<br>200-827-9<br>601-003-00-5<br>01-2119486944-21 | 2,5-10 | Flam. Gas 1; H220<br>Press. Gas; H280 | / | U |
| **n-hexane** | 110-54-3<br>203-777-6<br>601-037-00-0 | <2,5 | Flam. Liq. 2; H225<br>Asp. Tox. 1; H304<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Repr. 2; H361f<br>STOT RE 2; H373<br>Aquatic Chronic 2; H411 | STOT RE 2; H373; C ≥ 5% | / |

### Notes for substances

| | |
|---|---|
| C | Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.<br><br>In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers. |
| S | This substance may not require a label according to Article 17 (see Section 1.3 of Annex I) (Table 3). |
| 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.<br>The following codes are assigned:<br>Press. Gas (Comp.)<br>Press. Gas (Liq.)<br>Press. Gas (Ref. Liq.)<br>Press. Gas (Diss.)<br>Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2). |

### Product description

Hydrocarbons with a propellant.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. No action shall be taken involving any personal risk or without suitable training.

#### Following inhalation

If symptoms occur, seek medical advice. Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing. If breathing is irregular or respiratory arrest occurs provide artificial respiration. In case of unconsciousness bring patient into stable side position and seek medical attention.

#### Following skin contact

Take off all contaminated clothing. Wash affected skin areas immediately with plenty of water and soap. If symptoms develop and persist, seek medical attention. Wash contaminated clothes and shoes before reuse.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

**Following ingestion**

Not likely. Accidental ingestion: Do not induce vomiting! Immediately consult a doctor. Show the physician the safety data sheet or label. Never give anything by mouth to an unconscious person.

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

**Following inhalation**

Vapours may cause drowsiness and dizziness. Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing.

**Following skin contact**

Irritating to the skin. Itching, redness, pain.

**Following eye contact**

Strongly irritates the eyes. Redness, tearing, pain.

**Following ingestion**

Ingestion is unlikely because it is an aerosol. Accidental ingestion: May cause nausea/vomiting and diarrhea. May be fatal if swallowed and enters airways.

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

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

No information.

### 5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products**

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide ($CO_2$).

### 5.3 Advice for firefighters

**Protective actions**

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area. In case of fire aerosols can explode and be propelled to considerable distances in different directions.

**Special protective equipment for fire-fighters**

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

**Additional information**

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

**Protective equipment**

Use personal protective equipment (Section 8).

**Precautionary measures**

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

**Emergency procedures**

Prevent access to unauthorised personnel. Prevent access to unprotected personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

**For emergency responders**

Use personal protective equipment.

### 6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

### 6.3 Methods and material for containment and cleaning up

**For containment**

Stem the spill if this does not pose risks.

**For cleaning up**

Collect the spray cans and hand them over to an authorized waste disposal contractor. Release of liquid because of damaged aerosol can (release of large quantities): Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Do not absorb spillage with sawdust or other combustible material. Dispose in accordance with applicable regulations (see Section 13). Clean residue from spill site.

**Other information**

See Section 7: HANDLING AND STORAGE.

### 6.4 Reference to other sections

See also sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Protective measures**

**Measures to prevent fire**

Ensure adequate ventilation. Take precautionary measures against static discharges. Keep away from sources of ignition - no smoking. Use spark-proof tools. Pressurized container; protect from sunlight and do not expose to tempratures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or incandescent material.

**Measures to prevent aerosol and dust generation**

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

**Measures to protect the environment**

Avoid release to the environment.

**Other measures**

No information.

**Advice on general occupational hygiene**

Wear suitable protective equipment; see Section 8. Refer to instructions on label and regulations for safety and health at work. Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Consider measures required in Section 8 of this safety data sheet.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Store in accordance with local regulations. Keep in well closed containers. Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Keep away from sources of ignition. Keep away from oxidising substances. Keep away from food, drink and animal feeding stuffs.

#### Packaging materials

The original container of producer.

#### Requirements for storage rooms and vessels

Do not store in unlabelled containers.

#### Storage temperature

No information.

#### Storage class

No information.

#### Further information on storage conditions

No information.

### 7.3 Specific end use(s)

#### Recommendations

No information.

#### Industrial sector specific solutions

No information.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure limit values

| Name | mg/m³ | ml/m³ | Short-term value mg/m³ | Short-term value ml/m³ | Remark | Biological Tolerance Values |
|---|---|---|---|---|---|---|
| n-Hexane (110-54-3) | 72 | 20 | / | / | / | / |
| Acetone (67-64-1) | 1210 | 500 | 3620 | 1500 | / | / |
| Carbon dioxide (124-38-9) | 9150 | 5000 | 27400 | 15000 | / | / |

#### Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

#### DNEL/DMEL values

#### For product

No information.

#### For components

| Name | Type | Exposure route | exp. frequency | Remark | Value |
|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Worker | inhalation | long term systemic effects | / | 2085 mg/m³ |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Worker | dermal | long term systemic effects | / | 300 mg/kg bw/day |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Consumer | inhalation | long term systemic effects | / | 447 mg/m³ |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Consumer | dermal | long term systemic effects | / | 149 mg/kg bw/day |

| | | | | | |
|---|---|---|---|---|---|
| **hydrocarbons, C7, n-alkanes, isoalkanes, cyclics** | Consumer | oral | long term systemic effects | / | 149 mg/kg bw/day |
| **acetone** | Worker | inhalation | long term systemic effects | / | 1210 mg/m³ |
| **acetone** | Worker | inhalation | short term local effects | / | 2420 mg/m³ |
| **acetone** | Worker | dermal | long term systemic effects | / | 186 mg/kg bw/day |
| **acetone** | Consumer | inhalation | long term systemic effects | / | 200 mg/m³ |
| **acetone** | Consumer | dermal | long term systemic effects | / | 62 mg/kg bw/day |
| **acetone** | Consumer | oral | long term systemic effects | / | 62 mg/kg bw/day |

PNEC values

For product

No information.

For components

| Name | Exposure route | Remark | Value |
|---|---|---|---|
| **acetone** | fresh water | / | 10.6 mg/L |
| **acetone** | water, intermittent release | / | 21 mg/L |
| **acetone** | marine water | / | 1.06 mg/L |
| **acetone** | water treatment plant | / | 100 mg/L |
| **acetone** | fresh water sediment | dry weight | 30.4 mg/kg |
| **acetone** | marine water sediment | dry weight | 3.04 mg/kg |
| **acetone** | soil | dry weight | 29.5 mg/kg |

## 8.2 Exposure controls

### Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Do not breathe vapours/aerosols. Keep away from foodstuffs, beverages and feed. Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

If this product contains ingredients with exposure limits, personal, workplace atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protection.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

### Personal protective equipment

Eye and face protection

Safety glasses with side protection (EN ISO 16321-1:2022).

Hand protection

Protective gloves (BS EN ISO 374). The product is a preparation of several substances, the resistance of glove materials cannot be predicted and must therefore be checked before use.

Appropriate materials

Skin protection

Cotton protective clothing and shoes that cover the entire foot (BS EN ISO 20345:2022+A1:2024). Protective antistatic clothing BS EN 1149 (1:2006, 2:1997 and 3:2004, 5:2018), protective antistatic shoes (BS EN ISO 20345:2022+A1:2024). Choose body protection according to the activity and possible exposure.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. If the concentration limit values are exceeded, it is

necessary to wear appropriate respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

#### Thermal hazards

No information.

#### Environmental exposure controls

#### Substance/mixture related measures to prevent exposure

No information.

#### Instruction measures to prevent exposure

No information.

#### Organisational measures to prevent exposure

No information.

#### Technical measures to prevent exposure

Prevent release into the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Important health, safety and environmental information

| | |
|---|---|
| **Physical state** | liquid |
| **Shape** | aerosol |
| **Colour** | colourless |
| **Odour** | No information. |
| **Odour threshold** | No information. |
| **Melting/freezing point or softening point** | No information. |
| **Boiling point or initial boiling point and boiling range** | No information. |
| **Flammability** | No information. |
| **Lower and upper explosion limit** | 1.5 — 10.9 % v/v (propellant)<br>2.1 — 13 % v/v (acetone) |
| **Flash point** | No information. |
| **Auto-ignition temperature** | No information. |
| **Decomposition temperature** | No information. |
| **pH** | No information. |
| **Viscosity** | No information. |
| **Solubility** | No information. |
| **Partition coefficient n-octanol/water (log value)** | No information. |
| **Vapour pressure** | < 70 hPa at 20 °C |
| **Density** | 0.7129 — 0.7132 g/cm$^3$ |
| **Relative vapour/gas density** | No information. |
| **Particle characteristics** | No information. |

### 9.2 Other information

#### Information with regard to physical hazard classes

No information.

#### Other safety characteristics

No information.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under recommended transport or storage conditions.

### 10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3 Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

### 10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not expose to heat and direct sunlight.

### 10.5 Incompatible materials

Oxidants.

### 10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

For components

| Name | Exposure route | Type | Species | Time | Value | Method | Remark |
|---|---|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | oral | $LD_{50}$ | rat | / | > 5840 mg/kg bw | / | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | dermal | $LD_{50}$ | rat | / | > 2920 mg/kg | / | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | inhalation | $LC_{50}$ | rat | 4 h | > 23.3 mg/l | / | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | dermal | $LD_{50}$ | rat | 24 h | > 2920 mg/kg bw | / | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | inhalation (vapours) | $LC_{50}$ | rat | 4 h | > 23300 mg/$m^3$ | OECD 403 | / |
| acetone | inhalation | $LC_{50}$ | rat | / | > 20 mg/l | / | / |
| acetone | dermal | $LD_{50}$ | rat | / | > 2000 mg/kg | / | / |
| acetone | oral | $LD_{50}$ | rat | / | > 2000 mg/kg | / | / |

(b) Skin corrosion/irritation

For components

| Name | Species | Time | result | Method | Remark |
|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | / | / | Irritating. | / | / |
| acetone | / | / | Light irritation. Defatting the skin. | / | / |
| acetone | / | / | Prolonged and repeated contact can cause dermatitis. | / | / |

### Additional information

Causes skin irritation.

### (c) Serious eye damage/irritation

For components

| Name | Exposure route | Species | Time | result | Method | Remark |
|---|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | / | / | / | Not classified. | / | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | / | / | / | Contact with eyes may cause irritation. | / | / |
| acetone | / | / | / | Irritating to eyes. | / | / |
| acetone | / | / | / | It causes inflammation of the conjunctiva. | / | / |

### Additional information

Causes serious eye irritation.

### (d) Respiratory or skin sensitisation

For components

| Name | Exposure route | Species | Time | result | Method | Remark |
|---|---|---|---|---|---|---|
| acetone | - | / | / | According to known data the substance is not a chemical sensitizer. | / | / |

### (e) (Germ cell) mutagenicity

For components

| Name | Type | Species | Time | result | Method | Remark |
|---|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Genotoxicity | / | / | Negative. | / | / |
| acetone | / | / | / | The chemical is not classified as mutagenic. | / | / |

### (f) Carcinogenicity

For components

| Name | Exposure route | Type | Species | Time | Value | result | Method | Remark |
|---|---|---|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | / | / | / | / | / | Substance is not classified as carcinogenic. | / | / |
| acetone | / | / | / | / | / | Substance is not classified as carcinogenic. | / | / |

### (g) Reproductive toxicity

For components

| Name | Reproductive toxicity type | Type | Species | Time | Value | result | Method | Remark |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Reproductive toxicity | - | rat | / | / | The results of animal studies gave no indication of a fertility impairing effect. | / | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Developmental toxicity | / | rat | / | / | Did not show teratogenic effects in animal experiments. | / | / |
| acetone | / | / | / | / | / | The chemical is not classified as toxic for reproduction. | / | / |
| n-hexane | Reproductive toxicity | - | / | / | / | Suspected of damaging fertility. | / | / |

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

For components

| Name | Exposure route | Type | Species | Time | Exposure | organ | Value | result | Method | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | inhalation | - | / | / | / | / | / | May cause effects on the central nervous system. | / | high vapours concentrations |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | inhalation | - | / | / | / | / | / | Symptoms: nausea, unconsciousness. | / | high vapours concentrations |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | inhalation | - | / | / | / | / | / | Symptoms: mucous membrane irritation. | / | high vapours concentrations |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | inhalation | - | / | / | / | / | / | May cause respiratory irritation. | / | high vapours concentrations |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | oral | - | / | / | / | / | / | May cause irritation of the digestive tract. | / | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | - | - | / | / | / | / | / | May cause drowsiness or dizziness. | / | / |
| acetone | inhalation (vapours) | - | / | / | / | / | / | Headache, dizziness. | / | / |
| carbon dioxide | inhalation | - | / | / | / | / | / | 1 % $CO_2$ in the air: slight increase in breathing rate. | / | / |
| carbon dioxide | inhalation | - | / | / | / | / | / | 2 % $CO_2$ in the air: a 50 % increase in breathing rate. | / | / |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| carbon dioxide | inhalation | - | / | / | / | / | / | 3 % CO2 in the air: a two-times increase in breathing rate, decreased hearing, headache, slight narcotic effect, increased blood pressure and pulse. | / | / |
| carbon dioxide | inhalation | - | / | / | / | / | / | 4–5% concentration of CO2 in the air: an increase in breathing rate by four times, symptoms of intoxication become noticeable, a choking feeling. | / | / |
| carbon dioxide | inhalation | - | / | / | / | / | / | 5-10 % CO2 in the air: headache, tinnitus and dizziness; after a few minutes - loss of consciousness. | / | / |
| carbon dioxide | inhalation | - | / | / | / | / | / | 10-100 % CO2 in the air: unconsciousness occurs rapidly at concentrations above 10%; it can be harmful or fatal. | / | / |

### Additional information

May cause drowsiness or dizziness.

### (i) STOT-repeated exposure

No information.

### (j) Aspiration hazard

### For components

| Name | result | Method | Remark |
|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Aspiration into the lungs can cause lung damage. | / | The exposed person should be kept under medical surveillance for 48 hours. |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | May be fatal if swallowed and enters airways. | / | / |

### Additional information

May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

No information.

### Interactive effects

No information.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

For product

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

#### Other information

No information.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Acute (short-term) toxicity

For components

| Name | Type | Value | Exposure time | Species | organism | Method | Remark |
|---|---|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | $EL_{50}$ | 10 - 30 mg/L | 72 h | algae | *Selenastrum capricornutum* | / | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | $ErL_{50}$ | 10 - 30 mg/L | 72 h | algae | *Pseudokirchneriella subcapitata* | OECD 201 | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | EbL50 | 10 - 30 mg/L | 72 h | algae | *Pseudokirchneriella subcapitata* | OECD 201 | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | $EL_{50}$ | 3 mg/L | 48 h | crustacea | *Daphnia magna* | OECD 202 | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | $LL_{50}$ | > 13.4 mg/L | 96 h | fish | *Oncorhynchus mykiss* | OECD 203 | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | NOELR | 6.3 mg/L | 72 h | *Pseudokirchneriella subcapitata* | / | OECD 201 | / |
| acetone | $LC/EC/IC_{50}$ | > 1000 mg/L | / | fish | / | / | / |
| acetone | $LC/EC/IC_{50}$ | > 1000 mg/L | / | invertebrates | / | / | / |
| acetone | $LC/EC/IC_{50}$ | > 1000 mg/L | / | algae | / | / | / |
| acetone | $LC/EC/IC_{50}$ | > 1000 mg/L | / | bacteria | / | / | / |

#### Chronic (long-term) toxicity

For components

| Name | Type | Value | Exposure time | Species | organism | Method | Remark |
|---|---|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | NOELR | 1 mg/l | 21 days | crustacea | *Daphnia magna* | OECD 211 | / |
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | NOELR | 1.53 mg/l | 28 days | fish | *Oncorhynchus mykiss* | / | QSAR Petrotox |

### 12.2 Persistence and degradability

#### Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

| Name | Type | Rate | Time | Evaluation | Method | Remark |
|---|---|---|---|---|---|---|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | biodegradability | 98 % | 28 days | readily biodegradable | OECD 301F | / |
| acetone | biodegradability | / | / | biodegradable | / | / |

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

No information.

Bioconcentration factor (BCF)

No information.

## 12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

## 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

For product

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

## 12.7 Other adverse effects

No information.

## 12.8 Additional information

For product

Toxic to aquatic life with long lasting effects. Water hazard class (WGK): 3 (Self-assessment), very hazardous for water. Avoid release to the environment.

For components

**hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

**acetone**

Volatile. Soluble in water. Spillages may penetrate the soil causing ground water contamination. Low bioaccumulation potential.

**carbon dioxide**
When discharged in large quantities may contribute to the greenhouse effect (GWP=1).

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product / Packaging disposal**

**Waste chemical**
Avoid release to the environment. Product and container must be disposed of safely. Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

**Waste codes / waste designations according to LoW**
16 05 04* - gases in pressure containers (including halons) containing dangerous substances

**Packaging**
Uncleaned containers should not be perforated, cut or welded. Pressurized container. Do not pierce or burn, even after use. Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

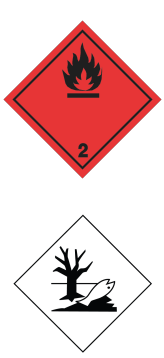
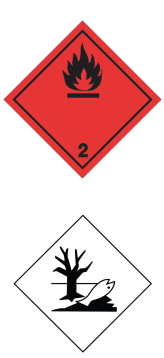
**Waste codes / waste designations according to LoW**
15 01 11* - metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

**Waste treatment-relevant information**
No information.

**Sewage disposal-relevant information**
No information.

**Other disposal recommendations**
No information.

## SECTION 14: TRANSPORT INFORMATION

| ADR/RID | IMDG | IATA | ADN |
|---|---|---|---|
| 14.1 UN number or ID number | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 |
| 14.2 UN proper shipping name | | | |
| AEROSOLS | AEROSOLS (hydrocarbons, C7, n-alkanes, isoalkanes, cyclics) | AEROSOLS | AEROSOLS |
| 14.3 Transport hazard class(es) | | | |
| 2 | 2 | 2 | 2 |
|  |  |  |  |

| | | | |
|---|---|---|---|
| 14.4 Packing group | | | |
| Not given/not applicable | Not given/not applicable | Not given/not applicable | Not given/not applicable |
| 14.5 Environmental hazards | | | |
| YES | Marine pollutant | YES | YES |
| 14.6 Special precautions for user | | | |
| Limited quantities<br>1 L<br>Special provisions<br>190, 327, 344, 625<br>Packing Instructions<br>P207, LP200<br>Special packing provisions<br>PP87, RR6, L2<br>Transport category<br>2<br>Tunnel restriction code<br>(D)<br>Classification code<br>5F | Limited quantities<br>1 L<br>EmS<br>F-D, S-U | Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst)<br>Y203<br>Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg)<br>30 kg G<br>Packing Instructions (Pkg Inst)<br>203<br>Maximum Net Quantity/Package (Max Net Qty/Pkg)<br>25 kg<br>Special provisions<br>A145, A167, A802 | Limited quantities<br>1 L |
| 14.7 Maritime transport in bulk according to IMO instruments | | | |
| | Goods may not be carried in bulk in bulk containers, containers or vehicles. | | |

## SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

**Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)**

not applicable

**Ingredients according to Regulation (EC) No 648/2004 on detergents**

> 30%: aliphatic hydrocarbons

**Special instructions**

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors:
ANNEX II REPORTABLE EXPLOSIVES PRECURSORS:
Acetone (CAS: 67-64-1).
All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

### 15.2 Chemical Safety Assessment

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

## SECTION 16: OTHER INFORMATION

**Indication of changes**

6.3 Methods and material for containment and cleaning up 8.1 Control parameters 8.2 Exposure controls 9.1 Information on basic physical and chemical properties 9.2 Other information 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 12.1 Toxicity 12.3 Bioaccumulative potential 12.8 Additional information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Key literature references and sources for data**

No information.

**Abbreviations and acronyms**

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

*The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.*