

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Petroleum benzene 60-95 , extra pure

article number: **8575**

Version: **GHS 3.0 en**

Replaces version of: 2020-03-20

Version: (GHS 2)

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

### 1.1 Product identifier

Identification of the substance

**Petroleum benzene 60-95 , extra pure**

Article number

8575

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

Relevant identified uses:

Laboratory and analytical use  
Laboratory chemical

Uses advised against:

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

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

Carl Roth GmbH + Co KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:** +49 (0) 721 - 56 06 0

**Telefax:** +49 (0) 721 - 56 06 149

**e-mail:** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

**Website:** [www.carlroth.de](http://www.carlroth.de)

Competent person responsible for the safety data sheet: Department Health, Safety and Environment

**e-mail (competent person):**

**[sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)**

### 1.4 Emergency telephone number

| Name   | Street          | Postal code/city   | Telephone | Website |
|--|-----------------|--------------------|-----------|---------|
| NSW Poisons Information Centre<br>Childrens Hospital | Hawkesbury Road | 2145 Westmead, NSW | 131126    |         |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class  | Cat-egory | Hazard class and category | Hazard statement |
|---------|---|-----------|---------------------------|------------------|
| 2.6     | Flammable liquid  | 2         | Flam. Liq. 2              | H225             |
| 3.2     | Skin corrosion/irritation   | 2         | Skin Irrit. 2             | H315             |
| 3.7     | Reproductive toxicity   | 2         | Repr. 2                   | H361f            |
| 3.8D    | Specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3         | STOT SE 3                 | H336             |
| 3.10    | Aspiration hazard   | 1         | Asp. Tox. 1               | H304             |

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For full text of abbreviations: see SECTION 16

### The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

## 2.2 Label elements

### Labelling

#### Signal word

**Danger**

#### Pictograms

GHS02, GHS07,  
GHS08



#### 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              |

#### Precautionary statements

##### Precautionary statements - prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

##### Precautionary statements - response

|           |   |
|-----------|---|
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician              |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water                                  |
| P331      | Do NOT induce vomiting  |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction |

##### Precautionary statements - storage

|           |   |
|-----------|---|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed |
| P403+P235 | Store in a well-ventilated place. Keep cool                     |

For professional users only

#### Hazardous ingredients for labelling:

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, n-Hexane, Hydrocarbons, C<sub>6</sub>, isoalkanes, <5% n-hexane, Hydrocarbons, C<sub>7</sub>, n-alkanes, isoalkanes, cyclics

## 2.3 Other hazards

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

##### Description of the mixture

| Name of sub-stance  | Identifier        | Wt%   | Classification acc. to GHS   | Pictograms  | Notes |
|---|-------------------|-------|--|---|-------|
| Hydrocarbons, C <sub>6</sub> -C <sub>7</sub> , isoalkanes, cyclics, <5% n-hexane            |                   | ≤ 50  | Flam. Liq. 2 / H225<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304<br>EUH066  |          |       |
| Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics                               | CAS No 64742-49-0 | ≤ 40  | Flam. Liq. 2 / H225<br>Skin Irrit. 2 / H315<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304  |          |       |
| Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n-hexane                                     | CAS No 64742-49-0 | ≤ 40  | Flam. Liq. 2 / H225<br>Skin Irrit. 2 / H315<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304  |    |       |
| Hydrocarbons, C <sub>6</sub> -C <sub>7</sub> , n-alkanes, isoalkanes, cyclics, <5% n-hexane | CAS No 92128-66-0 | ≤ 40  | Flam. Liq. 2 / H225<br>Skin Irrit. 2 / H315<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304  |    |       |
| n-Hexane  | CAS No 110-54-3   | < 5   | Flam. Liq. 2 / H225<br>Skin Irrit. 2 / H315<br>Repr. 2 / H361f<br>STOT SE 3 / H336<br>STOT RE 2 / H373<br>Asp. Tox. 1 / H304 |    |       |
| Cyclohexane   | CAS No 110-82-7   | < 1.5 | Flam. Liq. 2 / H225<br>Skin Irrit. 2 / H315<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304  |    |       |

For full text of abbreviations: see SECTION 16

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures



##### General notes

Take off contaminated clothing.

##### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

##### Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

##### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

##### Following ingestion

Call a physician immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Observe aspiration hazard if vomiting occurs.

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

Aspiration hazard, Irritation, Dizziness, Drowsiness, Narcosis

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

none

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media



##### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings  
water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

water jet

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

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

##### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

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### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Danger of explosion.

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

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

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

#### 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

Provision of sufficient ventilation. Avoid exposure.

#### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

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

Keep container tightly closed.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice:

Ground/bond container and receiving equipment.

#### Ventilation requirements

Use local and general ventilation.

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

| Cou<br>ntr<br>y | Name of agent | CAS No   | Identi-<br>fier | TW<br>A<br>[pp<br>m] | TWA<br>[mg/<br>m <sup>3</sup> ] | STE<br>L<br>[pp<br>m] | STEL<br>[mg/<br>m <sup>3</sup> ] | Ceil-<br>ing-<br>C<br>[pp<br>m] | Ceil-<br>ing-C<br>[mg/<br>m <sup>3</sup> ] | Nota-<br>tion | Source |
|-----------------|---------------|----------|-----------------|----------------------|---------------------------------|-----------------------|----------------------------------|---------------------------------|--|---------------|--------|
| AU              | n-hexane      | 110-54-3 | WES             | 20                   | 72                              |                       |                                  |                                 |  |               | WES    |
| AU              | cyclohexane   | 110-82-7 | WES             | 100                  | 350                             | 300                   | 1,050                            |                                 |  |               | WES    |

#### Notation

Ceiling-C  
STEL  
TWA

Ceiling value is a limit value above which exposure should not occur  
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)  
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 of components of the mixture

| Name of sub-<br>stance  | CAS No     | End-<br>point | Threshol<br>d level         | Protection<br>goal, route of<br>exposure | Used in           | Exposure time                 |
|---|------------|---------------|-----------------------------|--|-------------------|-------------------------------|
| Hydrocarbons, C6-<br>C7, isoalkanes, cyc-<br>lics, <5% n-hexane |            | DNEL          | 5,306 mg/<br>m <sup>3</sup> | human, inhalat-<br>ory                   | worker (industry) | chronic - systemic<br>effects |
| Hydrocarbons, C6-<br>C7, isoalkanes, cyc-<br>lics, <5% n-hexane |            | DNEL          | 13,964 mg/<br>kg bw/day     | human, dermal                            | worker (industry) | chronic - systemic<br>effects |
| Hydrocarbons, C <sub>6</sub> ,<br>isoalkanes, <5% n-<br>hexane  | 64742-49-0 | DNEL          | 5,306 mg/<br>m <sup>3</sup> | human, inhalat-<br>ory                   | worker (industry) | chronic - systemic<br>effects |
| Hydrocarbons, C <sub>6</sub> ,<br>isoalkanes, <5% n-<br>hexane  | 64742-49-0 | DNEL          | 13,964 mg/<br>kg bw/day     | human, dermal                            | worker (industry) | chronic - systemic<br>effects |

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| Relevant DNELs of components of the mixture   |            |           |                         |                                    |                   |                            |
|---|------------|-----------|-------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance   | CAS No     | End-point | Threshold level         | Protection goal, route of exposure | Used in           | Exposure time              |
| Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics                               | 64742-49-0 | DNEL      | 2,085 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics                               | 64742-49-0 | DNEL      | 300 mg/kg bw/day        | human, dermal                      | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C <sub>6</sub> -C <sub>7</sub> , n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 | DNEL      | 2,035 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C <sub>6</sub> -C <sub>7</sub> , n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 | DNEL      | 773 mg/kg bw/day        | human, dermal                      | worker (industry) | chronic - systemic effects |
| n-Hexane  | 110-54-3   | DNEL      | 75 mg/m <sup>3</sup>    | 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 |
| Cyclohexane   | 110-82-7   | DNEL      | 700 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Cyclohexane   | 110-82-7   | DNEL      | 1,400 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| Cyclohexane   | 110-82-7   | DNEL      | 700 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - local effects    |
| Cyclohexane   | 110-82-7   | DNEL      | 1,400 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - local effects      |
| Cyclohexane   | 110-82-7   | DNEL      | 2,016 mg/kg bw/day      | human, dermal                      | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components of the mixture |          |           |                 |                       |                              |                              |
|---|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No   | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| Cyclohexane                                 | 110-82-7 | PNEC      | 0.207 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| Cyclohexane                                 | 110-82-7 | PNEC      | 0.207 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| Cyclohexane                                 | 110-82-7 | PNEC      | 3.24 mg/l       | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Cyclohexane                                 | 110-82-7 | PNEC      | 16.68 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Cyclohexane                                 | 110-82-7 | PNEC      | 16.68 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| Cyclohexane                                 | 110-82-7 | PNEC      | 3.38 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |

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### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

##### Eye/face protection



Use safety goggle with side protection.

##### Skin protection



- **hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

- **type of material**

NBR (Nitrile rubber)

- **material thickness**

>0,4 mm

- **breakthrough times of the glove material**

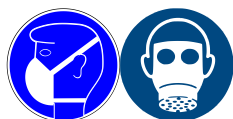
>480 minutes (permeation: level 6)

- **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Flame-retardant protective clothing.

##### Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

##### Environmental exposure controls

Keep away from drains, surface and ground water.



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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|  |  |
|--|--|
| Physical state   | liquid   |
| Colour   | colourless                                       |
| Odour  | characteristic                                   |
| Melting point/freezing point                             | <-20 °C  |
| Boiling point or initial boiling point and boiling range | 60 – 95 °C                                       |
| Flammability   | flammable liquid in accordance with GHS criteria |
| Lower and upper explosion limit                          | 0.9 vol% (LEL) - 8.3 vol% (UEL)                  |
| Flash point  | <0 °C (ASTM D 56)                                |
| Auto-ignition temperature                                | >200 °C  |
| Decomposition temperature                                | not relevant                                     |
| pH (value)   | not determined                                   |
| Kinematic viscosity                                      | 0.45 – 1.4 mm <sup>2</sup> /s at 20 °C           |

#### Solubility(ies)

|                  |                         |
|------------------|-------------------------|
| Water solubility | (practically insoluble) |
|------------------|-------------------------|

#### Partition coefficient

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

|                 |                        |
|-----------------|------------------------|
| Vapour pressure | 100 – 200 hPa at 20 °C |
|-----------------|------------------------|

#### Density and/or relative density

|                         |   |
|-------------------------|---|
| Density                 | 0.675 – 0.711 g/cm <sup>3</sup> at 15 °C      |
| Relative vapour density | information on this property is not available |

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

#### Other safety parameters

|                      |      |
|----------------------|------|
| Oxidising properties | none |
|----------------------|------|

#### 9.2 Other information

|   |                                     |
|---|-------------------------------------|
| Information with regard to physical hazard classes: | There is no additional information. |
|---|-------------------------------------|

|                               |                                     |
|-------------------------------|-------------------------------------|
| Other safety characteristics: | There is no additional information. |
|-------------------------------|-------------------------------------|

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition. Vapours may form explosive mixtures with air.

##### If heated

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

**Violent reaction with:** strong oxidiser

#### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

Rubber articles, different plastics

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

### 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   |            |                    |          |                      |         |
|---|------------|--------------------|----------|----------------------|---------|
| Name of substance   | CAS No     | Exposure route     | Endpoint | Value                | Species |
| Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics                               | 64742-49-0 | inhalation: vapour | LC50     | >23.3 mg/l/4h        | rat     |
| Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics                               | 64742-49-0 | dermal             | LD50     | >2,800 – 3,100 mg/kg | rat     |
| Hydrocarbons, C <sub>6</sub> -C <sub>7</sub> , n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 | inhalation: vapour | LC50     | >25.2 mg/l/4h        | rat     |
| Hydrocarbons, C <sub>6</sub> -C <sub>7</sub> , n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 | dermal             | LD50     | >2,800 – 3,100 mg/kg | rat     |
| n-Hexane  | 110-54-3   | inhalation: vapour | LC50     | 185 mg/l/4h          | rat     |
| n-Hexane  | 110-54-3   | oral               | LD50     | 25,000 mg/kg         | rat     |

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| Acute toxicity of components of the mixture |          |                    |          |                               |         |
|---|----------|--------------------|----------|-------------------------------|---------|
| Name of substance                           | CAS No   | Exposure route     | Endpoint | Value                         | Species |
| n-Hexane                                    | 110-54-3 | dermal             | LD50     | >2,000 mg/kg                  | rabbit  |
| Cyclohexane                                 | 110-82-7 | oral               | LD50     | >5,000 mg/kg                  | rat     |
| Cyclohexane                                 | 110-82-7 | inhalation: vapour | LC50     | >32,880 mg/m <sup>3</sup> /4h | rat     |
| Cyclohexane                                 | 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

Suspected of damaging fertility.

### 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

May be fatal if swallowed and enters airways.

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

#### • If swallowed

aspiration hazard

#### • If in eyes

causes slight to moderate irritation

#### • If inhaled

dizziness, fatigue, narcosis

#### • If on skin

has degreasing effect on the skin, causes skin irritation

#### • Other information

none

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## 11.2 Endocrine disrupting properties

None of the ingredients are listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

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 |
|-------------------|----------|----------|------------|-----------------------|---------------|
| 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          |
| Cyclohexane       | 110-82-7 | LC50     | 4.53 mg/l  | fish                  | 96 h          |
| Cyclohexane       | 110-82-7 | EC50     | 0.9 mg/l   | aquatic invertebrates | 48 h          |
| Cyclohexane       | 110-82-7 | ErC50    | 9.317 mg/l | algae                 | 72 h          |

#### Aquatic toxicity (chronic) of components of the mixture

| Name of substance   | CAS No     | Endpoint | Value     | Species               | Exposure time |
|---|------------|----------|-----------|-----------------------|---------------|
| Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics                               | 64742-49-0 | EC50     | 0.23 mg/l | aquatic invertebrates | 21 d          |
| Hydrocarbons, C <sub>6</sub> -C <sub>7</sub> , n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 | EC50     | 0.23 mg/l | aquatic invertebrates | 21 d          |

### Biodegradation

Data are not available.

### 12.2 Process of degradability

#### Degradability of components of the mixture

| Name of substance  | CAS No     | Process          | Degradation rate | Time | Method | Source |
|--|------------|------------------|------------------|------|--------|--------|
| Hydrocarbons, C <sub>6</sub> -C <sub>7</sub> , isoalkanes, cyclics, <5% n-hexane |            | oxygen depletion | 83 %             | 10 d |        | ECHA   |
| Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n-hexane                          | 64742-49-0 | oxygen depletion | 83 %             | 10 d |        | ECHA   |
| Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics                    | 64742-49-0 | oxygen depletion | 83 %             | 16 d |        | ECHA   |

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### Degradability of components of the mixture

| Name of substance   | CAS No     | Process          | Degradation rate | Time | Method | Source |
|---|------------|------------------|------------------|------|--------|--------|
| Hydrocarbons, C <sub>6</sub> -C <sub>7</sub> , n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 | oxygen depletion | 83 %             | 16 d |        | ECHA   |
| n-Hexane  | 110-54-3   | oxygen depletion | 83 %             | 10 d |        | ECHA   |
| Cyclohexane   | 110-82-7   | biotic/abiotic   | 77 %             | 28 d |        |        |

### 12.3 Bioaccumulative potential

Data are not available.

### Bioaccumulative potential of components of the mixture

| Name of substance   | CAS No     | BCF   | Log KOW                   | BOD5/COD |
|---|------------|-------|---------------------------|----------|
| Hydrocarbons, C <sub>6</sub> -C <sub>7</sub> , isoalkanes, cyclics, <5% n-hexane            |            |       | 3.6 (pH value: 7, 20 °C)  |          |
| Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n-hexane                                     | 64742-49-0 | 501.2 | 3.6 (pH value: 7, 20 °C)  |          |
| Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics                               | 64742-49-0 |       | 3.6 (pH value: 7, 20 °C)  |          |
| Hydrocarbons, C <sub>6</sub> -C <sub>7</sub> , n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 |       | 3.4 – 5.2                 |          |
| n-Hexane  | 110-54-3   | 501.2 | 4 (pH value: 7, 20 °C)    |          |
| Cyclohexane   | 110-82-7   | 167   | 3.44 (pH value: 7, 25 °C) |          |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

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### Sewage disposal-relevant information

Do not empty into drains.

### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### Relevant provisions relating to waste(Basel Convention)

### Properties of waste which render it hazardous

**H3** Flammable liquids  
**H11** Toxic (Delayed or chronic)

### 13.3 Remarks

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

## SECTION 14: Transport information

### 14.1 UN number

|                |            |
|----------------|------------|
| <b>UN RTDG</b> | UN<br>3295 |
| IMDG-Code      | UN 3295    |
| ICAO-TI        | UN 3295    |

### 14.2 UN proper shipping name

|                |                              |
|----------------|------------------------------|
| <b>UN RTDG</b> | HYDROCARBONS, LIQUID, N.O.S. |
| IMDG-Code      | HYDROCARBONS, LIQUID, N.O.S. |
| ICAO-TI        | Hydrocarbons, liquid, n.o.s. |

### 14.3 Transport hazard class(es)

|                |   |
|----------------|---|
| <b>UN RTDG</b> | 3 |
| IMDG-Code      | 3 |
| ICAO-TI        | 3 |

### 14.4 Packing group

|                |    |
|----------------|----|
| <b>UN RTDG</b> | II |
| IMDG-Code      | II |
| ICAO-TI        | II |

### 14.5 Environmental hazards

|  |  |
|--|--|
|  | hazardous to the aquatic environment                   |
| Environmentally hazardous substance (aquatic environment): | Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane |

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

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### Transport informationNational regulationsAdditional information(UN RTDG)

|                       |   |
|-----------------------|---|
| UN number             | 3295  |
| Class                 | 3   |
| Environmental hazards | Yes<br>Hazardous to the aquatic environment |
| Packing group         | II  |
| Danger label(s)       | 3<br>Fish and tree                          |



|                          |                |
|--------------------------|----------------|
| Special provisions (SP)  | -<br>UN RTDG   |
| Excepted quantities (EQ) | E2<br>UN RTDG  |
| Limited quantities (LQ)  | 1 L<br>UN RTDG |

### International Maritime Dangerous Goods Code (IMDG) - Additional information

|  |  |
|--|--|
| Proper shipping name                     | HYDROCARBONS, LIQUID, N.O.S.   |
| Particulars in the shipper's declaration | UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, <0°C c.c., MARINE POLLUTANT |
| Marine pollutant                         | yes (hazardous to the aquatic environment)                               |
| Danger label(s)                          | 3, "Fish and tree"   |



|                          |          |
|--------------------------|----------|
| Special provisions (SP)  | -        |
| Excepted quantities (EQ) | E2       |
| Limited quantities (LQ)  | 1 L      |
| EmS                      | F-E, S-D |
| Stowage category         | B        |

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

|  |   |
|--|---|
| Proper shipping name                     | Hydrocarbons, liquid, n.o.s.                |
| Particulars in the shipper's declaration | UN3295, Hydrocarbons, liquid, n.o.s., 3, II |
| Environmental hazards                    | yes (hazardous to the aquatic environment)  |
| Danger label(s)                          | 3   |



|                          |     |
|--------------------------|-----|
| Special provisions (SP)  | A3  |
| Excepted quantities (EQ) | E2  |
| Limited quantities (LQ)  | 1 L |

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### SECTION 15: Regulatory information

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

There is no additional information.

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| AU      | AIIC       | not all ingredients are listed |
| CA      | DSL        | not all ingredients are listed |
| CN      | IECSC      | not all ingredients are listed |
| EU      | ECSI       | not all ingredients are listed |
| EU      | REACH Reg. | all ingredients are listed     |
| JP      | CSCL-ENCS  | not all ingredients are listed |
| JP      | ISHA-ENCS  | not all ingredients are listed |
| KR      | KECI       | not all ingredients are listed |
| MX      | INSQ       | not all ingredients are listed |
| NZ      | NZIoC      | not all ingredients are listed |
| PH      | PICCS      | not all ingredients are listed |
| TR      | CICR       | not all ingredients are listed |
| TW      | TCSI       | not all ingredients are listed |
| US      | TSCA       | not all ingredients are listed |

#### Legend

|            |   |
|------------|---|
| AIIC       | Australian Inventory of Industrial Chemicals                            |
| CICR       | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS  | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL        | Domestic Substances List (DSL)  |
| ECSI       | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| ISHA-ENCS  | Inventory of Existing and New Chemical Substances (ISHA-ENCS)           |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| REACH Reg. | REACH registered substances   |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substance Control Act   |

#### 15.2 Chemical Safety Assessment

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



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### SECTION 16: Other information

#### Indication of changes (revised safety data sheet)

Alignment to regulation: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Restructuring: section 9, section 14

| Section | Former entry (text/value)  | Actual entry (text/value)  | Safety-relevant |
|---------|--|--|-----------------|
| 2.1     |  | Classification acc. to GHS:<br>change in the listing (table)   | yes             |
| 2.1     | The most important adverse physicochemical, human health and environmental effects:<br>Narcotic effects.   | The most important adverse physicochemical, human health and environmental effects:<br>The product is combustible and can be ignited by potential ignition sources.  | yes             |
| 2.2     |  | Hazard statements:<br>change in the listing (table)  | yes             |
| 2.2     |  | Precautionary statements - storage:<br>change in the listing (table)   | yes             |
| 2.2     | Hazardous ingredients for labelling:<br>Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, Hydrocarbons, C6, isoalkanes, <5% n-hexane, Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Hazardous ingredients for labelling:<br>Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, n-Hexane, Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n-hexane, Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics | yes             |
| 2.2     | Labelling of packages where the contents do not exceed 125 ml:<br>Signal word: Danger  |  | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)  | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)  | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)  | yes             |
| 2.2     | contains:<br>Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, Hydrocarbons, C6, isoalkanes, <5% n-hexane, Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane                            |  | yes             |
| 2.3     | Other hazards:<br>There is no additional information.  | Other hazards  | yes             |
| 2.3     |  | Results of PBT and vPvB assessment:<br>This mixture does not contain any substances that are assessed to be a PBT or a vPvB.   | yes             |

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### Abbreviations and acronyms

| Abbr.      | Descriptions of used abbreviations   |
|------------|--|
| Asp. Tox.  | Aspiration hazard  |
| BCF        | Bioconcentration factor  |
| BOD        | Biochemical Oxygen Demand  |
| CAS        | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)   |
| Ceiling-C  | Ceiling value  |
| COD        | Chemical oxygen demand   |
| DGR        | Dangerous Goods Regulations (see IATA/DGR)   |
| 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 |
| 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. Liq. | Flammable liquid   |
| 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  |
| 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)  |
| LL50       | Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality   |
| log KOW    | n-Octanol/water  |
| NLP        | No-Longer Polymer  |
| PBT        | Persistent, Bioaccumulative and Toxic  |
| PNEC       | Predicted No-Effect Concentration  |
| ppm        | Parts per million  |
| Repr.      | Reproductive toxicity  |

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| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| 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)   |
| UN RTDG     | UN Recommendations on the Transport of Dangerous Good                       |
| vPvB        | Very Persistent and very Bioaccumulative                                    |
| WES         | Safe Work Australia: Workplace exposure standards for airborne contaminants |

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. 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).

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

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

### Disclaimer

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