

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878 - DE



## OKS 2101

|         |                |                                 |             |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 26.06.2026  | Print Date: |
| 4.0     | 05.08.2026     | Date of first issue: 22.06.2016 | 05.08.2026  |

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

### 1.1 Product identifier

Product name : OKS 2101

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

Use of the Substance/Mixture : Anticorrosion additive

Recommended restrictions on use : Restricted to professional users.

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

Company : OKS Spezialschmierstoffe GmbH  
Ganghoferstr. 47  
82216 Maisach  
Germany  
Tel.: +49 8142 3051-500  
info@oks-germany.com

E-mail address of person responsible for the SDS : mcm@oks-germany.com

National contact : Klüber Lubrication Deutschland GmbH & Co. KG  
Geisenhausenerstraße 7  
81379 München  
Germany  
Tel.: +49 (0) 89 7876 0  
customer.service.de@klueber.com

### 1.4 Emergency telephone number

Emergency telephone number : +49 8142 3051 517

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.  
H229: Pressurised container: May burst if heated.

Skin irritation, Category 2 H315: Causes skin irritation.

Specific target organ toxicity - single exposure, Category 3, Central nervous H336: May cause drowsiness or dizziness.

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system

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

Long-term (chronic) aquatic hazard,  
Category 2

H411: Toxic to aquatic life with long lasting effects.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

|                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms        | : |                                                                                                                                                                                        |
| Signal word              | : | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Hazard statements        | : | H222 Extremely flammable aerosol.<br>H229 Pressurised container: May burst if heated.<br>H304 May be fatal if swallowed and enters airways.<br>H315 Causes skin irritation.<br>H336 May cause drowsiness or dizziness.<br>H411 Toxic to aquatic life with long lasting effects.                                                                                                                                                                                                                                               |
| Precautionary statements | : | <b>Prevention:</b><br>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P211 Do not spray on an open flame or other ignition source.<br>P251 Do not pierce or burn, even after use.<br>P273 Avoid release to the environment.<br><b>Response:</b><br>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.<br>P331 Do NOT induce vomiting.<br><b>Storage:</b><br>P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. |

### Hazardous components which must be listed on the label:

pentane

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

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Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

### 2.3 Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Propellant  
Solvent  
Mineral oil.  
Corrosion inhibitor

#### Components

| Chemical name                                                | CAS-No.<br>EC-No.<br><br>Index-No.<br>Registration number          | Classification                                                                                                                    | specific<br>concentration<br>limit<br>M-Factor<br>Notes<br>Acute toxicity<br>estimate | Concentration<br>(% w/w) |
|--------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------|
| pentane                                                      | 109-66-0<br>203-692-4<br><br>601-006-00-1<br>01-2119459286-30-XXXX | Flam. Liq. 2; H225<br>STOT SE 3; H336<br>(Central nervous<br>system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411<br>EUH066 | Note C                                                                                | >= 10 - < 20             |
| Hydrocarbons, C6-C7,<br>isoalkanes, cyclics,<br><5% n-hexane | 926-605-8                                                          | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>STOT SE 3; H336                                                                      | Note P                                                                                | >= 10 - < 20             |

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|                                                                     |                                                                    |                                                                                                                                                                         |                                                              |                   |
|---------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------|
|                                                                     | 01-2119486291-36-XXXX                                              | (Central nervous system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411                                                                                             |                                                              |                   |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics                   | 918-167-1<br><br>01-2119472146-39-XXXX                             | Flam. Liq. 3; H226<br>Asp. Tox. 1; H304<br>EUH066                                                                                                                       | Note P                                                       | $\geq 1 - < 10$   |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | 919-857-5<br><br>01-2119463258-33-XXXX                             | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)<br>Asp. Tox. 1; H304                                                                                  | Note P                                                       | $\geq 1 - < 10$   |
| Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics            | 920-134-1<br><br>01-2119480153-44-XXXX                             | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411                                                    | Note P                                                       | $\geq 2,5 - < 10$ |
| cyclohexane                                                         | 110-82-7<br>203-806-2<br><br>601-017-00-1                          | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>(Central nervous system)<br>Asp. Tox. 1; H304<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410 | M-Factor: 1/1                                                | $\geq 1 - < 2,5$  |
| 2-butoxyethanol                                                     | 111-76-2<br>203-905-0<br><br>603-014-00-0<br>01-2119475108-36-XXXX | Acute Tox. 4;<br>H302<br>Acute Tox. 3;<br>H331<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319                                                                             | ATE (Oral):<br>1.200 mg/kg<br>ATE<br>(Inhalation):<br>3 mg/l | $\geq 1 - < 10$   |
| n-hexane                                                            | 110-54-3<br>203-777-6<br><br>601-037-00-0                          | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Repr. 2; H361f<br>STOT SE 3; H336<br>(Central nervous system)                                                              | ** , ***                                                     | $\geq 0,25 - < 1$ |

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|                                              |                                                                    |                                                                    |                                  |                  |
|----------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------|------------------|
|                                              |                                                                    | STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411 |                                  |                  |
| Substances with a workplace exposure limit : |                                                                    |                                                                    |                                  |                  |
| butane                                       | 106-97-8<br>203-448-7<br><br>601-004-00-0<br>01-2119474691-32-XXXX | Flam. Gas 1;<br>H220<br>Press. Gas<br>Compr. Gas;<br>H280          | Note U (Table 3), Note C, Note S | $\geq 30 - < 50$ |
| propane                                      | 74-98-6<br>200-827-9<br><br>601-003-00-5<br>01-2119486944-21-XXXX  | Flam. Gas 1;<br>H220<br>Press. Gas<br>Compr. Gas;<br>H280          | Note U (Table 3)                 | $\geq 10 - < 20$ |
| isobutane                                    | 75-28-5<br>200-857-2<br><br>601-004-00-0<br>01-2119485395-27-XXXX  | Flam. Gas 1A;<br>H220<br>Press. Gas<br>Compr. Gas;<br>H280         | Note U (Table 3), Note C         | $\geq 1 - < 10$  |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : Call a physician or poison control centre immediately.  
Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.  
Wash off immediately with plenty of water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
If eye irritation persists, consult a specialist.

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If swallowed : Move the victim to fresh air.  
If accidentally swallowed obtain immediate medical attention.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Aspiration hazard if swallowed - can enter lungs and cause damage.

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

Symptoms : Aspiration may cause pulmonary oedema and pneumonitis.

Inhalation may provoke the following symptoms:

Unconsciousness

Dizziness

Drowsiness

Headache

Nausea

Tiredness

Skin contact may provoke the following symptoms:

Erythema

Risks : May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause drowsiness or dizziness.  
  
Central nervous system depression  
Risk of product entering the lungs on vomiting after ingestion.  
Health injuries may be delayed.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : ABC powder

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Fire Hazard  
Do not let product enter drains.  
Contains gas under pressure; may explode if heated.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool containers/tanks with water spray.

## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Do not breathe vapours or spray mist. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Refer to protective measures listed in sections 7 and 8. Only qualified personnel equipped with suitable protective equipment may intervene.

### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Non-sparking tools should be used.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Do not use in areas without adequate ventilation.  
Do not breathe vapours or spray mist.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Keep away from fire, sparks and heated surfaces.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not use sparking tools.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
- Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

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

- Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in accordance with the particular national regulations.
- Storage class (TRGS 510) : 2B, Aerosol cans and lighters

### 7.3 Specific end use(s)

- Specific use(s) : Specific instructions for handling, not required.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components | CAS-No. | Value type (Form | Control parameters | Basis |
|------------|---------|------------------|--------------------|-------|
|------------|---------|------------------|--------------------|-------|

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|                                                        |                                                                                                                                                                                                                                            |              |                          |                                |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------|--------------------------------|
|                                                        |                                                                                                                                                                                                                                            | of exposure) |                          |                                |
| butane                                                 | 106-97-8                                                                                                                                                                                                                                   | AGW          | 1.000 ppm<br>2.400 mg/m3 | DE TRGS<br>900<br>(2006-01-01) |
|                                                        | Peak-limit: excursion factor (category): 4;(II)                                                                                                                                                                                            |              |                          |                                |
|                                                        |                                                                                                                                                                                                                                            | MAK          | 1.000 ppm<br>2.400 mg/m3 | DE DFG MAK<br>(2023-07-01)     |
|                                                        | Peak-limit: excursion factor (category): 4; II                                                                                                                                                                                             |              |                          |                                |
|                                                        | Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C |              |                          |                                |
| pentane                                                | 109-66-0                                                                                                                                                                                                                                   | TWA          | 1.000 ppm<br>3.000 mg/m3 | 2006/15/EC<br>(2006-02-09)     |
|                                                        | Further information: Indicative                                                                                                                                                                                                            |              |                          |                                |
|                                                        |                                                                                                                                                                                                                                            | AGW          | 1.000 ppm<br>3.000 mg/m3 | DE TRGS<br>900<br>(2010-08-04) |
|                                                        | Peak-limit: excursion factor (category): 2;(II)                                                                                                                                                                                            |              |                          |                                |
|                                                        | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child                                                                                                   |              |                          |                                |
|                                                        |                                                                                                                                                                                                                                            | MAK          | 1.000 ppm<br>3.000 mg/m3 | DE DFG MAK<br>(2023-07-01)     |
|                                                        | Peak-limit: excursion factor (category): 2; II                                                                                                                                                                                             |              |                          |                                |
|                                                        | Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed                                                                                                                            |              |                          |                                |
| propane                                                | 74-98-6                                                                                                                                                                                                                                    | MAK          | 1.000 ppm<br>1.800 mg/m3 | DE DFG MAK<br>(2023-07-01)     |
|                                                        | Peak-limit: excursion factor (category): 4; II                                                                                                                                                                                             |              |                          |                                |
|                                                        | Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C |              |                          |                                |
|                                                        |                                                                                                                                                                                                                                            | AGW          | 1.000 ppm<br>1.800 mg/m3 | DE TRGS<br>900<br>(2006-01-01) |
|                                                        | Peak-limit: excursion factor (category): 4;(II)                                                                                                                                                                                            |              |                          |                                |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane | Not Assigned                                                                                                                                                                                                                               | AGW          | 1.500 mg/m3              | DE TRGS<br>900<br>(2009-02-16) |
|                                                        | Peak-limit: excursion factor (category): 2;(II)                                                                                                                                                                                            |              |                          |                                |
|                                                        | Further information: Group exposure limit for hydrocarbon solvent mixtures                                                                                                                                                                 |              |                          |                                |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics      | Not Assigned                                                                                                                                                                                                                               | MAK          | 50 ppm<br>300 mg/m3      | DE DFG MAK<br>(2023-07-01)     |
|                                                        | Peak-limit: excursion factor (category): 2; II                                                                                                                                                                                             |              |                          |                                |
|                                                        | Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C |              |                          |                                |
|                                                        |                                                                                                                                                                                                                                            | AGW          | 300 mg/m3                | DE TRGS                        |

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|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------|--------------------------------|
|                                                                     |                                                                                                                                                                                                                                            |     |                          | 900<br>(2017-11-30)            |
|                                                                     | Peak-limit: excursion factor (category): 2;(II)                                                                                                                                                                                            |     |                          |                                |
|                                                                     | Further information: Group exposure limit for hydrocarbon solvent mixtures                                                                                                                                                                 |     |                          |                                |
| isobutane                                                           | 75-28-5                                                                                                                                                                                                                                    | AGW | 1.000 ppm<br>2.400 mg/m3 | DE TRGS<br>900<br>(2006-01-01) |
|                                                                     | Peak-limit: excursion factor (category): 4;(II)                                                                                                                                                                                            |     |                          |                                |
|                                                                     |                                                                                                                                                                                                                                            | MAK | 1.000 ppm<br>2.400 mg/m3 | DE DFG MAK<br>(2023-07-01)     |
|                                                                     | Peak-limit: excursion factor (category): 4; II                                                                                                                                                                                             |     |                          |                                |
|                                                                     | Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C |     |                          |                                |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | Not Assigned                                                                                                                                                                                                                               | MAK | 50 ppm<br>300 mg/m3      | DE DFG MAK<br>(2023-07-01)     |
|                                                                     | Peak-limit: excursion factor (category): 2; II                                                                                                                                                                                             |     |                          |                                |
|                                                                     | Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C |     |                          |                                |
|                                                                     |                                                                                                                                                                                                                                            | AGW | 300 mg/m3                | DE TRGS<br>900<br>(2017-11-30) |
|                                                                     | Peak-limit: excursion factor (category): 2;(II)                                                                                                                                                                                            |     |                          |                                |
|                                                                     | Further information: Group exposure limit for hydrocarbon solvent mixtures                                                                                                                                                                 |     |                          |                                |
| Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics            | Not Assigned                                                                                                                                                                                                                               | MAK | 50 ppm<br>300 mg/m3      | DE DFG MAK<br>(2023-07-01)     |
|                                                                     | Peak-limit: excursion factor (category): 2; II                                                                                                                                                                                             |     |                          |                                |
|                                                                     | Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C |     |                          |                                |
|                                                                     |                                                                                                                                                                                                                                            | AGW | 300 mg/m3                | DE TRGS<br>900<br>(2017-11-30) |
|                                                                     | Peak-limit: excursion factor (category): 2;(II)                                                                                                                                                                                            |     |                          |                                |
|                                                                     | Further information: Group exposure limit for hydrocarbon solvent mixtures                                                                                                                                                                 |     |                          |                                |
| cyclohexane                                                         | 110-82-7                                                                                                                                                                                                                                   | TWA | 200 ppm<br>700 mg/m3     | 2006/15/EC<br>(2006-02-09)     |
|                                                                     | Further information: Indicative                                                                                                                                                                                                            |     |                          |                                |
|                                                                     |                                                                                                                                                                                                                                            | MAK | 200 ppm<br>700 mg/m3     | DE DFG MAK<br>(2023-07-01)     |
|                                                                     | Peak-limit: excursion factor (category): 4; II                                                                                                                                                                                             |     |                          |                                |
|                                                                     | Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C |     |                          |                                |
|                                                                     |                                                                                                                                                                                                                                            | AGW | 200 ppm                  | DE TRGS                        |

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|                 |                                                                                                                                                           |      |                                 |                                |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------|--------------------------------|
|                 |                                                                                                                                                           |      | 700 mg/m <sup>3</sup>           | 900<br>(2010-08-04)            |
|                 | Peak-limit: excursion factor (category): 4;(II)                                                                                                           |      |                                 |                                |
| 2-butoxyethanol | 111-76-2                                                                                                                                                  | TWA  | 20 ppm<br>98 mg/m <sup>3</sup>  | 2000/39/EC<br>(1991-07-05)     |
|                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                        |      |                                 |                                |
|                 |                                                                                                                                                           | STEL | 50 ppm<br>246 mg/m <sup>3</sup> | 2000/39/EC<br>(1991-07-05)     |
|                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                        |      |                                 |                                |
|                 |                                                                                                                                                           | MAK  | 10 ppm<br>49 mg/m <sup>3</sup>  | DE DFG MAK<br>(2024-07-01)     |
|                 | Peak-limit: excursion factor (category): 2; I                                                                                                             |      |                                 |                                |
|                 | Further information: Danger of absorption through the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed    |      |                                 |                                |
|                 |                                                                                                                                                           | AGW  | 10 ppm<br>49 mg/m <sup>3</sup>  | DE TRGS<br>900<br>(2019-03-29) |
|                 | Peak-limit: excursion factor (category): 2;(I)                                                                                                            |      |                                 |                                |
|                 | Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |      |                                 |                                |
| n-hexane        | 110-54-3                                                                                                                                                  | TWA  | 20 ppm<br>72 mg/m <sup>3</sup>  | 2006/15/EC<br>(2006-02-09)     |
|                 | Further information: Indicative                                                                                                                           |      |                                 |                                |
|                 |                                                                                                                                                           | MAK  | 50 ppm<br>180 mg/m <sup>3</sup> | DE DFG MAK<br>(2023-07-01)     |
|                 | Peak-limit: excursion factor (category): 8; II                                                                                                            |      |                                 |                                |
|                 | Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed                                           |      |                                 |                                |
|                 |                                                                                                                                                           | AGW  | 50 ppm<br>180 mg/m <sup>3</sup> | DE TRGS<br>900<br>(2010-08-04) |
|                 | Peak-limit: excursion factor (category): 8;(II)                                                                                                           |      |                                 |                                |
|                 | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child                  |      |                                 |                                |

### Further occupational exposure limits

| Description                                 | Value type | Control parameters    | Basis       |
|---------------------------------------------|------------|-----------------------|-------------|
| Calculated according to TRGS 900 RCP-method | AGW        | 450 mg/m <sup>3</sup> | DE TRGS 900 |

### Biological occupational exposure limits

| Substance name | CAS-No.  | Control parameters                                     | Sampling time                                                       | Basis                      |
|----------------|----------|--------------------------------------------------------|---------------------------------------------------------------------|----------------------------|
| cyclohexane    | 110-82-7 | 1,2-cyclohexanediol:<br>150 mg/g creatinine<br>(Urine) | end of shift, for long-term exposures after several previous shifts | DE DFG BAT<br>(2023-07-01) |

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|                 |          |                                                                  |                                                                                                                          |                            |
|-----------------|----------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------|
|                 |          | 1,2-cyclohexanediol:<br>150 mg/g<br>creatinine<br>(Urine)        | In case of long-term exposure:<br>after more than one shift                                                              | TRGS 903<br>(2024-08-16)   |
| 2-butoxyethanol | 111-76-2 | butoxy acetic acid:<br>150 mg/g<br>creatinine<br>(Urine)         | end of shift, for long-term exposures after several previous shifts                                                      | DE DFG BAT<br>(2024-07-01) |
|                 |          | butoxy acetic acid:<br>150 mg/g<br>creatinine<br>(Urine)         | In case of long-term exposure:<br>after more than one shift                                                              | TRGS 903<br>(2024-08-16)   |
| n-hexane        | 110-54-3 | 2,5-hexanedione plus 4,5-dihydroxy-2-hexanone: 5 mg/l<br>(Urine) | end of shift, for long-term exposures after several previous shifts, Immediately after exposition or after working hours | DE DFG BAT<br>(2023-07-01) |
|                 |          | 2,5-hexanedione plus 4,5-dihydroxy-2-hexanone: 5 mg/l<br>(Urine) | Immediately after exposure or after working hours                                                                        | TRGS 903<br>(2013-09-19)   |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

| Substance name                                         | End Use | Exposure routes | Potential health effects   | Value            |
|--------------------------------------------------------|---------|-----------------|----------------------------|------------------|
| pentane                                                | Workers | Inhalation      | Long-term systemic effects | 3000 mg/m3       |
|                                                        | Workers | Skin contact    | Long-term systemic effects | 432 mg/kg        |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane | Workers | Inhalation      | Acute systemic effects     | 1286,4 mg/m3     |
|                                                        | Workers | Inhalation      | Long-term local effects    | 837,5 mg/m3      |
| 2-butoxyethanol                                        | Workers | Inhalation      | Long-term systemic effects | 98 mg/m3         |
|                                                        | Workers | Inhalation      | Acute systemic effects     | 1091 mg/m3       |
|                                                        | Workers | Skin contact    | Long-term systemic effects | 125 mg/kg bw/day |
|                                                        | Workers | Skin contact    | Acute systemic effects     | 89 mg/kg bw/day  |
|                                                        | Workers | Inhalation      | Acute local effects        | 246 mg/m3        |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics,  | Workers | Inhalation      | Long-term systemic effects | 871 mg/m3        |

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|                                                          |         |              |                            |            |
|----------------------------------------------------------|---------|--------------|----------------------------|------------|
| <2% aromatics                                            |         |              |                            |            |
|                                                          | Workers | Dermal       | Long-term systemic effects | 77 mg/kg   |
| Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics | Workers | Inhalation   | Long-term systemic effects | 871 mg/m3  |
|                                                          | Workers | Dermal       | Long-term systemic effects | 77 mg/kg   |
| cyclohexane                                              | Workers | Inhalation   | Long-term systemic effects | 700 mg/m3  |
|                                                          | Workers | Skin contact | Long-term systemic effects | 2016 mg/kg |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

| Substance name  | Environmental Compartment | Value        |
|-----------------|---------------------------|--------------|
| 2-butoxyethanol | Fresh water               | 8,8 mg/l     |
|                 | Marine water              | 0,88 mg/l    |
|                 | Sewage treatment plant    | 463 mg/l     |
|                 | Fresh water sediment      | 34,6 mg/kg   |
|                 | Marine sediment           | 3,46 mg/kg   |
|                 | Soil                      | 2,33 mg/kg   |
| cyclohexane     | Intermittent use/release  | 26,4 mg/l    |
|                 | Fresh water               | 0,0447 mg/l  |
|                 | Marine water              | 0,00447 mg/l |
|                 | Sewage treatment plant    | 3,24 mg/l    |
|                 | Fresh water sediment      | 3,6 mg/kg    |
|                 | Marine sediment           | 0,36 mg/kg   |
|                 | Soil                      | 0,694 mg/kg  |

## 8.2 Exposure controls

### Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation.  
Handle only in a place equipped with local exhaust (or other appropriate exhaust).

### Personal protective equipment

Eye/face protection : Safety glasses with side-shields

#### Hand protection

Material : Nitrile rubber  
Break through time : > 10 min  
Protective index : Class 1

Remarks : Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.  
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Short term only
- Filter type : Filter type A-P
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Environmental exposure controls

- Air : Should not be released into the environment.
- Soil : Do not allow contact with soil, surface or ground water.  
The product should not be allowed to enter drains, water courses or the soil.
- Water : Do not allow contact with soil, surface or ground water.  
The product should not be allowed to enter drains, water courses or the soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : aerosol
- Colour : yellow
- Odour : characteristic
- Odour Threshold : No data available
- Melting point/ range : No data available
- Boiling point/boiling range : -161 °C (1.013 hPa)
- Flammability : Flammability (solid, gas):

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Extremely flammable aerosol.

Upper explosion limit / Upper  
flammability limit : 9,4 %(V)

Lower explosion limit / Lower  
flammability limit : 0,6 %(V)

Flash point : 0 °C  
Method: Abel-Pensky

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : Not applicable  
substance/mixture is non-soluble (in water)

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : < 20,5 mm<sup>2</sup>/s (40 °C)

Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-  
octanol/water : No data available

Vapour pressure : 8.327 hPa (20 °C)

Relative density : 0,638 (20 °C)  
Reference substance: Water  
The value is calculated

Density : 0,64 g/cm<sup>3</sup>  
(20 °C)

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Bulk density : No data available

Relative vapour density : No data available

Particle characteristics  
Particle size : No data available

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : No data available

Self-ignition : No data available

Metal corrosion rate : Not corrosive to metals

Evaporation rate : No data available

Sublimation point : No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.  
Strong sunlight for prolonged periods.  
Risk of receptacle bursting.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

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### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

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

#### Acute toxicity

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

#### Product:

|                           |   |                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | Remarks: Effects due to ingestion may include:<br><br>Symptoms: Central nervous system depression<br><br>Acute toxicity estimate: > 2.000 mg/kg<br>Method: Calculation method                                                                                                                                                                                          |
| Acute inhalation toxicity | : | Remarks: Respiration of solvent vapour may cause dizziness.<br><br>Symptoms: Inhalation may provoke the following symptoms:,<br>Respiratory disorder, Dizziness, Drowsiness, Vomiting,<br>Fatigue, Vertigo, Central nervous system depression<br><br>Acute toxicity estimate: > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: Calculation method |
| Acute dermal toxicity     | : | Symptoms: Redness, Local irritation                                                                                                                                                                                                                                                                                                                                    |

#### Components:

##### Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

|                           |   |                                                                                                               |
|---------------------------|---|---------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 Oral (Rat): > 5.000 mg/kg<br>Method: OECD Test Guideline 401                                             |
| Acute inhalation toxicity | : | LC50 (Rat): > 5,6 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403 |
| Acute dermal toxicity     | : | LD50 Dermal (Rabbit): > 2.200 mg/kg<br>Method: OECD Test Guideline 402                                        |

Remarks: Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.

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Symptoms: Skin disorders

### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Remarks: No mortality observed at this dose.

### Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Remarks: No mortality observed at this dose.

### cyclohexane:

Acute oral toxicity : LD50 Oral: > 5.000 mg/kg  
Method: OECD Test Guideline 401

### 2-butoxyethanol:

Acute oral toxicity : Acute toxicity estimate: 1.200 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008  
  
LD50 (Guinea pig): 1.414 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l  
Test atmosphere: vapour  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

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LC50: 3 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Guinea pig): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **n-hexane:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 259,35 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **butane:**

Acute inhalation toxicity : LC50 (Rat): 658 mg/l  
Exposure time: 4 h  
Test atmosphere: gas

### **isobutane:**

Acute inhalation toxicity : LC50 (Rat): 658 mg/l  
Exposure time: 4 h  
Test atmosphere: gas

### **Skin corrosion/irritation**

Causes skin irritation.

### **Product:**

Remarks : This information is not available.

### **Components:**

#### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

Species : Rabbit  
Result : Skin irritation

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### Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

Result : Repeated exposure may cause skin dryness or cracking.

### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes  
Remarks : Based on data from similar materials

### Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics:

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes  
Remarks : Based on data from similar materials

### cyclohexane:

Result : Skin irritation

### 2-butoxyethanol:

Species : Rabbit  
Assessment : Irritating to skin.  
Result : Irritating to skin.

### n-hexane:

Species : Rabbit  
Assessment : Irritating to skin.  
Method : OECD Test Guideline 404  
Result : Irritating to skin.

### Serious eye damage/eye irritation

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

### Product:

Remarks : This information is not available.

### Components:

### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

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Remarks : Based on data from similar materials

### Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics:

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes  
Remarks : Based on data from similar materials

### 2-butoxyethanol:

Species : Rabbit  
Assessment : Irritating to eyes.  
Result : Irritating to eyes.

### n-hexane:

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

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

#### Respiratory sensitisation

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

#### Product:

Remarks : This information is not available.

### Components:

#### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

Remarks : Based on data from similar materials

#### Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics:

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.

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Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes  
  
Remarks : Based on data from similar materials

### 2-butoxyethanol:

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Result : Did not cause sensitisation on laboratory animals.

### n-hexane:

Species : Mouse  
Assessment : Does not cause skin sensitisation.  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

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

#### Product:

Genotoxicity in vitro : Remarks: No data available  
Genotoxicity in vivo : Remarks: No data available

#### Components:

##### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Germ cell mutagenicity-  
Assessment : Weight of evidence does not support classification as a germ cell mutagen.

##### Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics:

Germ cell mutagenicity-  
Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### 2-butoxyethanol:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Rat  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity-  
Assessment : In vitro tests did not show mutagenic effects

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### Carcinogenicity

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

#### Product:

Remarks : No data available

#### Components:

##### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

Carcinogenicity - : Weight of evidence does not support classification as a  
Assessment carcinogen

##### **Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics:**

Carcinogenicity - : Weight of evidence does not support classification as a  
Assessment carcinogen

##### **2-butoxyethanol:**

Carcinogenicity - : Animal testing did not show any carcinogenic effects.  
Assessment

### Reproductive toxicity

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

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal : Remarks: No data available  
development

#### Components:

##### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

Reproductive toxicity - : - Fertility -  
Assessment  
Weight of evidence does not support classification for  
reproductive toxicity

##### **Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics:**

Reproductive toxicity - : - Fertility -  
Assessment  
Weight of evidence does not support classification for  
reproductive toxicity

##### **2-butoxyethanol:**

Reproductive toxicity - : - Fertility -  
Assessment  
No toxicity to reproduction

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- Teratogenicity -

Animal testing did not show any effects on foetal development.

### **n-hexane:**

Reproductive toxicity - Assessment : - Fertility -  
Suspected human reproductive toxicant

### **STOT - single exposure**

May cause drowsiness or dizziness.

### **Product:**

Remarks : No data available

### **Components:**

#### **pentane:**

Assessment : May cause drowsiness or dizziness.

#### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

Assessment : May cause drowsiness or dizziness.

#### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

Exposure routes : Inhalation  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

#### **Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics:**

Exposure routes : Inhalation  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

#### **cyclohexane:**

Exposure routes : Inhalation  
Assessment : May cause drowsiness or dizziness.

#### **2-butoxyethanol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### **n-hexane:**

Exposure routes : Inhalation  
Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ

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toxicant, single exposure, category 3 with narcotic effects.

### STOT - repeated exposure

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

#### Product:

Remarks : No data available

#### Components:

##### 2-butoxyethanol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### n-hexane:

Exposure routes : Inhalation  
Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### Repeated dose toxicity

#### Product:

Remarks : This information is not available.

### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Product:

May be fatal if swallowed and enters airways.

#### Components:

##### pentane:

May be fatal if swallowed and enters airways.

##### Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

May be fatal if swallowed and enters airways.

##### Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

May be fatal if swallowed and enters airways.

##### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

May be fatal if swallowed and enters airways.

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### Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics:

May be fatal if swallowed and enters airways.

### cyclohexane:

May be fatal if swallowed and enters airways.

### 2-butoxyethanol:

No aspiration toxicity classification

### n-hexane:

May be fatal if swallowed and enters airways.

## 11.2 Information on other hazards

### Endocrine disrupting properties

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

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

Remarks : Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

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### Components:

#### **pentane:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,26 mg/l  
End point: mortality  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2,7 mg/l  
aquatic invertebrates  
Exposure time: 48 h

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EL0 (Daphnia magna (Water flea)): 1.000 mg/l  
aquatic invertebrates  
Exposure time: 48 h

Toxicity to algae/aquatic : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1.000  
plants  
mg/l

#### **Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 3,6 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): 22 - 46 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1.000  
plants  
mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EL50 (Tetrahymena pyriformis): 0,868 mg/l  
Exposure time: 48 h

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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### cyclohexane:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,9 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### 2-butoxyethanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.474 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.550 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1.840 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 286 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 100 mg/l  
Exposure time: 21 d  
Species: Danio rerio (zebra fish)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: Reproduction Test  
Method: OECD Test Guideline 211

### n-hexane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 12,51 mg/l

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Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 21,85 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 9,285 mg/l  
Exposure time: 72 h

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### Components:

##### **pentane:**

Biodegradability : Result: Readily biodegradable.

##### **Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:**

Biodegradability : Result: Readily biodegradable.

##### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

Biodegradability : Result: Readily biodegradable.

##### **Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics:**

Biodegradability : Result: Readily biodegradable.

##### **cyclohexane:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 77 %  
Exposure time: 28 d

##### **2-butoxyethanol:**

Biodegradability : Test Type: aerobic  
Result: rapidly biodegradable  
Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **n-hexane:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge

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Result: rapidly biodegradable  
Biodegradation: 21 %  
Exposure time: 28 d  
GLP: yes

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **pentane:**

Bioaccumulation : Bioconcentration factor (BCF): 171

##### **Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:**

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: No data available

##### **cyclohexane:**

Bioaccumulation : Bioconcentration factor (BCF): 167

Partition coefficient: n-octanol/water : log Pow: 3,44 (20 °C)

##### **2-butoxyethanol:**

Bioaccumulation : Bioconcentration factor (BCF): 3,16

Partition coefficient: n-octanol/water : log Pow: 0,81 (25 °C)  
Method: OECD Test Guideline 107

##### **n-hexane:**

Bioaccumulation : Bioconcentration factor (BCF): 501,19

Partition coefficient: n-octanol/water : log Pow: 4 (20 °C)  
pH: 7

##### **butane:**

Partition coefficient: n-octanol/water : log Pow: 2,89  
Method: OECD Test Guideline 107

##### **propane:**

Partition coefficient: n-octanol/water : log Pow: 2,36

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### isobutane:

Partition coefficient: n-octanol/water : log Pow: 2,88  
Method: OECD Test Guideline 107

## 12.4 Mobility in soil

### Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

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

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

Additional ecological information : Toxic to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

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Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Offer empty spray cans to an established disposal company.  
Pressurized container: Do not pierce or burn, even after use.

The following Waste Codes are only suggestions:

Waste Code : unused product, packagings not completely emptied  
16 05 04\*, gases in pressure containers (including halons)  
containing hazardous substances

## SECTION 14: Transport information

### 14.1 UN number or ID number

|      |           |
|------|-----------|
| ADN  | : UN 1950 |
| ADR  | : UN 1950 |
| RID  | : UN 1950 |
| IMDG | : UN 1950 |
| IATA | : UN 1950 |

### 14.2 UN proper shipping name

|      |                                                                  |
|------|------------------------------------------------------------------|
| ADN  | : AEROSOLS                                                       |
| ADR  | : AEROSOLS                                                       |
| RID  | : AEROSOLS                                                       |
| IMDG | : AEROSOLS<br>(Pentane, naphtha (petroleum), hydrotreated heavy) |
| IATA | : Aerosols, flammable                                            |

### 14.3 Transport hazard class(es)

|      | Class | Subsidiary risks |
|------|-------|------------------|
| ADN  | : 2   | 2.1              |
| ADR  | : 2   | 2.1              |
| RID  | : 2   | 2.1              |
| IMDG | : 2.1 |                  |
| IATA | : 2.1 |                  |

### 14.4 Packing group

|                      |                              |
|----------------------|------------------------------|
| ADN<br>Packing group | : Not assigned by regulation |
|----------------------|------------------------------|

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Classification Code : 5F  
Labels : 2.1

### ADR

Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

### RID

Packing group : Not assigned by regulation  
Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

### IMDG

Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

### IATA (Cargo)

Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

### IATA (Passenger)

Packing instruction : 203  
(passenger aircraft)  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | :<br>Conditions of restriction for the following entries must be considered::<br>Number on list 3: 2-butoxyethanol<br><br>Number on list 40<br>This substance/mixture shall not be used in aerosol dispensers intended for supply to the general public for entertainment and decorative purposes.<br><br>Number on list 57: cyclohexane<br><br>Number on list 75<br>If you intend to use this product as tattoo ink, please contact your vendor. |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC)                                        | : n-hexane                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Regulation (EU) No 2024/590 on substances that deplete the ozone layer (EC 2024/590)                                                       | : Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast) (EU POP)                                                               | : Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals (EU PIC)    | : Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV)                                                      | : Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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Regulation (EU) 2019/1148 on the marketing and use of  
explosives precursors

Not applicable

P2

Seveso III: Directive 2012/18/EU of the European  
Parliament and of the Council on the control of  
major-accident hazards involving dangerous  
substances.

P3a FLAMMABLE AEROSOLS

E2 ENVIRONMENTAL HAZARDS

18 Liquefied flammable gases  
(including LPG) and natural gas

34 Petroleum products: (a) gasolines  
and naphthas, (b) kerosenes  
(including jet fuels), (c) gas oils  
(including diesel fuels, home heating  
oils and gas oil blending  
streams),(d) heavy fuel oils (e)  
alternative fuels serving the same  
purposes and with similar properties  
as regards flammability and  
environmental hazards as the  
products referred to in points (a) to  
(d)

Water hazard class : WGK 2 obviously hazardous to water  
(Germany) Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.1: Total dust:  
others: 3,77 %  
5.2.5: Organic Substances:  
Class 1: 4,6 %  
5.2.7.1.1: Carcinogenic substance:  
Class 3: 0,05 %

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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 93,32 %

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of H-Statements

|        |                                                                      |
|--------|----------------------------------------------------------------------|
| H220   | : Extremely flammable gas.                                           |
| H225   | : Highly flammable liquid and vapour.                                |
| H226   | : Flammable liquid and vapour.                                       |
| H280   | : Contains gas under pressure; may explode if heated.                |
| H302   | : Harmful if swallowed.                                              |
| H304   | : May be fatal if swallowed and enters airways.                      |
| H315   | : Causes skin irritation.                                            |
| H319   | : Causes serious eye irritation.                                     |
| H331   | : Toxic if inhaled.                                                  |
| H336   | : May cause drowsiness or dizziness.                                 |
| H361f  | : Suspected of damaging fertility.                                   |
| H373   | : May cause 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.                   |
| EUH066 | : Repeated exposure may cause skin dryness or cracking.              |

### Full text of other abbreviations

\*\* : Route of exposure cannot be excluded: For certain hazard classes, e.g. STOT, the route of exposure should be indicated in the hazard statement only if it is conclusively proven that no other route of exposure can cause the hazard in accordance to the criteria in Annex I. Under Directive 67/548/EEC the route of exposure was indicated for classifications with R48 when there was data justifying the classification for this route of exposure. The classification under 67/548/EEC indicating the route of exposure has been translated into the corresponding class and category according to this

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- \*\*\*
- Regulation, but with a general hazard statement not specifying the route of exposure as the necessary information is not available.
- : Hazard statements for reproductive toxicity: Hazard statements H360 and H361 indicate a general concern for effects on fertility and/or development: 'May damage/Suspected of damaging fertility or the unborn child'. According to the criteria, the general hazard statement can be replaced by the hazard statement indicating the specific effect of concern in accordance with Section 1.1.2.1.2. When the other differentiation is not mentioned, this is due to evidence proving no such effect, inconclusive data or no data and the obligations in Article 4(3) shall apply for that differentiation. In order not to lose information from the harmonised classifications for fertility and developmental effects under Directive 67/548/EEC, the classifications have been translated only for those effects classified under that Directive
- Acute Tox. : Acute toxicity
- Aquatic Acute : Short-term (acute) aquatic hazard
- Aquatic Chronic : Long-term (chronic) aquatic hazard
- Asp. Tox. : Aspiration hazard
- Eye Irrit. : Eye irritation
- Flam. Gas : Flammable gases
- Flam. Liq. : Flammable liquids
- Note 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.
- Note P : The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102)-P260-P262-P301 + P310-P331 shall apply.
- Note S : This substance may not require a label according to Article 17 (see Section 1.3 of Annex I) (Table 3).
- Note U (Table 3) : 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. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).
- Press. Gas : Gases under pressure
- Repr. : Reproductive toxicity
- Skin Irrit. : Skin irritation
- STOT RE : Specific target organ toxicity - repeated exposure
- STOT SE : Specific target organ toxicity - single exposure

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878 - DE



## OKS 2101

|         |                |                                 |             |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 26.06.2026  | Print Date: |
| 4.0     | 05.08.2026     | Date of first issue: 22.06.2016 | 05.08.2026  |

|                   |   |                                                                                                                    |
|-------------------|---|--------------------------------------------------------------------------------------------------------------------|
| 2000/39/EC        | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2006/15/EC        | : | Europe. Indicative occupational exposure limit values                                                              |
| DE DFG BAT        | : | Germany. MAK BAT Annex XIII                                                                                        |
| DE DFG MAK        | : | Germany. MAK BAT Annex IIa                                                                                         |
| DE TRGS 900       | : | Germany. TRGS 900 - Occupational exposure limit values.                                                            |
| TRGS 903          | : | TRGS 903 - Biological limit values                                                                                 |
| 2000/39/EC / TWA  | : | Limit Value - eight hours                                                                                          |
| 2000/39/EC / STEL | : | Short term exposure limit                                                                                          |
| 2006/15/EC / TWA  | : | Limit Value - eight hours                                                                                          |
| DE DFG MAK / MAK  | : | MAK value                                                                                                          |
| DE TRGS 900 / AGW | : | Time Weighted Average                                                                                              |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; BGW - Biological Limit Values; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LSPN - List of Hazardous Notified Substances (Chile); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Aerosol 1                      H222, H229

#### Classification procedure:

Based on product data or assessment

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| Skin Irrit. 2     | H315                         | Calculation method                                                |                           |
| STOT SE 3         | H336                         | Calculation method                                                |                           |
| Asp. Tox. 1       | H304                         | Based on product data or assessment                               |                           |
| Aquatic Chronic 2 | H411                         | Calculation method                                                |                           |

|| Relevant changes compared to the last edition are highlighted at the left margin. This version replaces all previous editions.

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