

# SAFETY DATA SHEET

## PRF Degreaser

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 04.01.2023

Revision date 23.02.2023

#### 1.1. Product identifier

Product name PRF Degreaser

Article no. PIDEGR52

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

Use of the substance / mixture Cleaning agent PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

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

Company name Taerosol Oy

Postal address Hampuntie 21

Postcode 36220

City Kangasala

Country Finland

Telephone number +358 33565600

Website [www.taerosol.com](http://www.taerosol.com)

Enterprise No. 02847686

#### 1.4. Emergency telephone number

Emergency telephone Telephone number: 112 / Finnish Poison Information Center: 0800 147 111, 24/7

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] Aerosol 1; H222,H229  
Skin Irrit. 2; H315

|  |  |
|--|--|
| Substance / mixture hazardous properties<br>Additional information on classification | Eye Irrit. 2; H319   |
|  | STOT SE 3; H336  |
|  | Aquatic Chronic 2; H411  |
|  | May explode if heated Vapours may form explosive mixture with air. |
| For the full text of the statements mentioned in this Section, see Section 16.       |  |

## 2.2. Label elements

### Hazard pictograms (CLP)



|                          |   |
|--------------------------|---|
| Composition on the label | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane, Propan-2-ol  |
| Signal word              | Danger  |
| Hazard statements        | H222 Extremely flammable aerosol.<br>H229 Pressurised container: May burst if heated.<br>H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness.<br>H411 Toxic to aquatic life with long lasting effects.  |
| Precautionary statements | P102 Keep out of reach of children.<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>P262 Do not get in eyes, on skin, or on clothing.<br>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F. |

## 2.3. Other hazards

|               |                  |
|---------------|------------------|
| PBT / vPvB    | See section 12.5 |
| Health effect | See section 11.2 |

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

| Substance                                       | Identification                        | Classification   | Contents | Notes |
|---|---------------------------------------|--|----------|-------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic | REACH Reg. No.: 01-2119475515-33-xxxx | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2; H411 | < 65 %   |       |
| Hydrocarbons, C6-C7,                            | EC No.: 921-024-6                     | Flam. Liq. 2; H225   | < 65 %   |       |

|   |  |  |        |
|---|--|--|--------|
| n-alkanes, isoalkanes, cyclic, <5% n-hexane | REACH Reg. No.:<br>01-2119475514-35-XXXX   | Asp. Tox. 1; H304<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Aquatic Chronic 2; H411 |        |
| Propan-2-ol                                 | CAS No.: 67-63-0<br>EC No.: 200-661-7<br>REACH Reg. No.:<br>01-2119457558-25-XXXX  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336                            | < 10 % |
| Substance comments                          | Aerosol propellants: Propane Butane Isobutane<br>Contains: aliphatic hydrocarbons ≥ 30 %<br>For the full text of the statements mentioned in this Section, see Section 16. |  |        |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|              |  |
|--------------|--|
| General      | Take off contaminated clothing and wash it before reuse.   |
| Inhalation   | Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  |
| Skin contact | Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.   |
| Eye contact  | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Ingestion    | Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.   |

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

|                              |  |
|------------------------------|--|
| General symptoms and effects | Skin irritation Eye irritation Drowsiness Dizziness Aspiration hazard if swallowed - can enter lungs and cause damage. |
|------------------------------|--|

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

|                   |                        |
|-------------------|------------------------|
| Medical treatment | Treat symptomatically. |
|-------------------|------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                              |   |
|------------------------------|---|
| Suitable extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Improper extinguishing media | Water spray   |

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

|                               |  |
|-------------------------------|--|
| Fire and explosion hazards    | May explode if heated Vapours may form explosive mixture with air. |
| Hazardous combustion products | Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide (CO)             |

### 5.3. Advice for firefighters

|                               |  |
|-------------------------------|--|
| Personal protective equipment | In accordance with the requirements of EN 469, firefighter's clothing with a helmet, protective boots and gloves provides a basic level of protection against chemical accidents. In case of inadequate ventilation wear respiratory protection. See section 8.2 |
| Fire fighting procedures      | Use water spray to cool unopened containers.   |

## SECTION 6: Accidental release measures

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

|                          |   |
|--------------------------|---|
| General measures         | Use personal protective equipment. See section 8.2 Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Stop leak if safe to do so. Evacuate area. |
| For emergency responders | Use personal protective equipment. See section 8.2  |

### 6.2. Environmental precautions

|                                      |  |
|--------------------------------------|--|
| Environmental precautionary measures | Try to prevent the material from entering drains or water courses. Avoid release to the environment. Collect spillage. |
|--------------------------------------|--|

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

|             |   |
|-------------|---|
| Containment | Prevent further leakage or spillage if safe to do so. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind. |
| Clean up    | Absorb spillage to prevent material damage. Non-sparking tools should be used.  |

### 6.4. Reference to other sections

|                    |                      |
|--------------------|----------------------|
| Other instructions | See section 7, 8, 13 |
|--------------------|----------------------|

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|          |  |
|----------|--|
| Handling | Remove all sources of ignition. Take precautionary measures against static discharges. Non-sparking tools should be used. Ground and bond container and receiving equipment. Keep away from oxidising agents and strongly acid or alkaline materials. Try to prevent the material from entering drains or water courses. Handle in accordance with good industrial hygiene and safety practice. Do not taste or swallow. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Wash hands and skin thoroughly after handling. Avoid breathing vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing. Wear eye protection. |
|----------|--|

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

|         |  |
|---------|--|
| Storage | Remove all sources of ignition. Keep away from oxidising agents and strongly acid or alkaline materials. Take precautionary measures against static discharge. Ground / bond container and receiving equipment. Protect from sunlight. Do not expose to temperatures exceeding 50 °C /122 °F. Keep away from food, drink and |
|---------|--|

animal feedingstuffs. Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

### 7.3. Specific end use(s)

Specific use(s) None known.

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

| Substance  | Identification   | Exposure limits   | TWA Year |
|--|------------------|---|----------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic                  |                  | Recommended monitoring procedures: This information is not available.<br>Comments: This information is not available.   |          |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane |                  | Country of origin: FI<br>Limit value (8 h) : 500 mg/m <sup>3</sup><br>Recommended monitoring procedures: This information is not available.<br>Source: Decree of the Ministry of Social Affairs and Health on concentrations known to be harmful (654/2020)<br>Comments: Solvent naphtha, group 1   |          |
| Propan-2-ol  | CAS No.: 67-63-0 | Country of origin: FI<br>Limit value (8 h) : 200 ppm<br>Limit value (8 h) : 500 mg/m <sup>3</sup><br><b>Limit value (short term)</b><br>Value: 250 ppm<br><b>Limit value (short term)</b><br>Value: 620 mg/m <sup>3</sup><br><b>Limit value (short term)</b><br>Appraisal period: 15 min<br>Recommended monitoring procedures: This information is not available.<br>Source: Decree of the Ministry of Social Affairs and Health on concentrations known to be harmful (654/2020) |          |

### DNEL / PNEC

|           |   |
|-----------|---|
| Substance | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic   |
| DNEL      | <b>Group:</b> Professional<br><b>Route of exposure:</b> Long-term inhalation (systemic) |

|           |   |
|-----------|---|
|           | <p><b>Value:</b> 2085 mg/m<sup>3</sup></p> <p><b>Group:</b> Professional<br/><b>Route of exposure:</b> Long-term dermal (systemic)<br/><b>Value:</b> 300 mg/kg bw/day</p> <p><b>Group:</b> Consumer<br/><b>Route of exposure:</b> Long-term inhalation (systemic)<br/><b>Value:</b> 447 mg/m<sup>3</sup></p> <p><b>Group:</b> Consumer<br/><b>Route of exposure:</b> Long-term dermal (systemic)<br/><b>Value:</b> 149 mg/kg bw/day</p> <p><b>Group:</b> Consumer<br/><b>Route of exposure:</b> Long-term oral (systemic)<br/><b>Value:</b> 149 mg/kg bw/day</p>  |
| Substance | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane  |
| DNEL      | <p><b>Group:</b> Professional<br/><b>Route of exposure:</b> Long-term dermal (systemic)<br/><b>Value:</b> 733 mg/kg bw/day</p> <p><b>Group:</b> Professional<br/><b>Route of exposure:</b> Long-term inhalation (systemic)<br/><b>Value:</b> 2035 mg/m<sup>3</sup></p> <p><b>Group:</b> Consumer<br/><b>Route of exposure:</b> Long-term dermal (systemic)<br/><b>Value:</b> 699 mg/kg bw/day</p> <p><b>Group:</b> Consumer<br/><b>Route of exposure:</b> Long-term inhalation (systemic)<br/><b>Value:</b> 608 mg/m<sup>3</sup></p> <p><b>Group:</b> Consumer<br/><b>Route of exposure:</b> Long-term oral (systemic)<br/><b>Value:</b> 699 mg/kg bw/day</p> |

## 8.2. Exposure controls

### Precautionary measures to prevent exposure

|                                  |                      |
|----------------------------------|----------------------|
| Appropriate engineering controls | See section 7.1, 7.2 |
|----------------------------------|----------------------|

### Eye / face protection

|                          |   |
|--------------------------|---|
| Eye protection equipment | <p>Description: Tightly fitting safety goggles Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.</p> <p>Reference to relevant standard: SFS-EN ISO 4007:2018<br/>SFS-EN ISO 16321-1:2022<br/>SFS-EN ISO 18526-1:2020<br/>SFS-EN ISO 16321-3:2022<br/>SFS-EN ISO 16321-2:2021<br/>SFS-EN ISO 18526-3:2020</p> |
|--------------------------|---|

SFS-EN ISO 18526-2:2020  
 SFS-EN ISO 18526-4:2020  
 SFS-EN ISO 19734:2021  
 SFS-EN 13911:2017  
 SFS-EN 16473  
 SFS-EN 167  
 SFS-EN 168  
 SFS-EN 443

## Hand protection

### Breakthrough time

Comments: As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

### Thickness of glove material

Comments: As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.

### Hand protection equipment

Description: Protective gloves Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.

Reference to relevant standard: SFS-EN ISO 374-1:2017

SFS-EN ISO 374-5:2017  
 SFS-EN 511  
 SFS-EN 659 + A1  
 SFS-EN 1082-1  
 SFS-EN 1082-2  
 SFS-EN 1082-3  
 SFS-EN 14325:2018  
 SFS-EN 16350

## Skin protection

### Recommended protective clothing

Description: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.

Reference to relevant standard: SFS-EN 863

SFS-EN 1149-2  
 SFS-EN 1149-3  
 SFS-EN 13034 + A1  
 SFS-EN 16689:2017  
 SFS-EN ISO 6530  
 CEN ISO/TR 11610  
 SFS-EN ISO 11612  
 SFS-EN ISO 13688  
 SFS-EN ISO 13982-1  
 SFS-EN ISO 13982-2  
 SFS-EN ISO 13995

SFS-EN ISO 13997  
SFS-EN ISO 14116  
SFS-EN 15090  
CEN ISO/TR 18690

## Respiratory protection

### Recommended respiratory protection

Description: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Use respirator when performing operations involving potential exposure to vapour of the product. In case of inadequate ventilation wear respiratory protection. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Reference to relevant standard: SFS-EN ISO 16972:2020

SFS-EN 13274-1  
SFS-EN 148-1:2019  
SFS-EN 144-1:2018  
SFS-EN 14593-1:2018  
SFS-EN 1146  
SFS-EN 12021  
SFS-EN 12083 + AC  
SFS-EN 12941 + A1 + A2  
SFS-EN 12942 + A1 + A2  
SFS-EN 13274-2:2019  
SFS-EN 13274-4:2020  
SFS-EN 13274-5  
SFS-EN 13274-6  
SFS-EN 13274-3  
SFS-EN 13274-8  
SFS-EN 13274-5  
SFS-EN 13274-7:2019  
SFS-EN 134  
SFS-EN 135  
SFS-EN 136 + AC  
SFS-EN 137  
SFS-EN 13794  
SFS-EN 138  
SFS-EN 140 + AC  
SFS-EN 142  
SFS-EN 143:2021  
SFS-EN 14387:2021  
SFS-EN 144-3 + AC  
SFS-EN 144-2:2018  
SFS-EN 14435  
SFS-EN 145/A1  
SFS-EN 145  
SFS-EN 14529  
SFS-EN 14594:2018  
SFS-EN 148-2  
SFS-EN 148-3  
SFS-EN 149 + A1



SFS-EN 15333-2  
 SFS-EN 1825-2  
 SFS-EN 1827 + A1  
 SFS-EN 250  
 SFS-EN 269  
 SFS-EN 402  
 SFS-EN 403  
 SFS-EN 404  
 SFS-EN 405 + A1  
 SFS-EN 529

## Thermal hazards

|                 |                 |
|-----------------|-----------------|
| Thermal hazards | Not applicable. |
|-----------------|-----------------|

## Appropriate environmental exposure control

|                                 |                 |
|---------------------------------|-----------------|
| Environmental exposure controls | See section 6.2 |
|---------------------------------|-----------------|

## SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Form  | Aerosol dispenser: spray aerosol             |
| Colour  | clear  |
| Odour   | hydrocarbon-like                             |
| Odour limit                                     | Reason for waiving data: No data.            |
| pH  | Comments: This information is not available. |
| Melting point / melting range                   | Reason for waiving data: No data.            |
| Boiling point / boiling range                   | Reason for waiving data: No data.            |
| Flash point                                     | Reason for waiving data: Not applicable      |
| Flammability                                    | Not applicable.                              |
| Lower explosion limit with unit of measurement  | Reason for waiving data: No data.            |
| Upper explosion limit with units of measurement | Reason for waiving data: No data.            |
| Vapour pressure                                 | Reason for waiving data: No data.            |
| Vapour density                                  | Reason for waiving data: Not applicable      |
| Particle characteristics                        | Reason for waiving data: Not applicable      |
| Relative density                                | Reason for waiving data: Not applicable      |
| Density   | Reason for waiving data: Not applicable      |
| Solubility                                      | Comments: This information is not available. |
| Partition coefficient: n-octanol/ water         | Reason for waiving data: No data.            |
| Auto-ignition temperature                       | Reason for waiving data: Not applicable      |

|                           |  |
|---------------------------|--|
| Decomposition temperature | Reason for waiving data: Not applicable                    |
| Viscosity                 | Type: Kinematic<br>Reason for waiving data: Not applicable |

## 9.2. Other information

### Other physical and chemical properties

|                                  |                                    |
|----------------------------------|------------------------------------|
| Physical and chemical properties | This information is not available. |
|----------------------------------|------------------------------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|            |                 |
|------------|-----------------|
| Reactivity | See section 5.2 |
|------------|-----------------|

### 10.2. Chemical stability

|           |        |
|-----------|--------|
| Stability | Stable |
|-----------|--------|

### 10.3. Possibility of hazardous reactions

|                                    |                 |
|------------------------------------|-----------------|
| Possibility of hazardous reactions | See section 5.2 |
|------------------------------------|-----------------|

### 10.4. Conditions to avoid

|                     |                      |
|---------------------|----------------------|
| Conditions to avoid | See section 7.1, 7.2 |
|---------------------|----------------------|

### 10.5. Incompatible materials

|                    |                      |
|--------------------|----------------------|
| Materials to avoid | See section 7.1, 7.2 |
|--------------------|----------------------|

### 10.6. Hazardous decomposition products

|                                  |                 |
|----------------------------------|-----------------|
| Hazardous decomposition products | See section 5.2 |
|----------------------------------|-----------------|

## SECTION 11: Toxicological information

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

|                |  |
|----------------|--|
| Substance      | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic  |
| Acute toxicity | <p><b>Effect tested:</b> LD50<br/> <b>Route of exposure:</b> Oral<br/> <b>Value:</b> &gt; 5840 mg/kg<br/> <b>Animal test species:</b> Rat</p> <p><b>Effect tested:</b> LD50<br/> <b>Route of exposure:</b> Dermal<br/> <b>Method:</b> OECD 402<br/> <b>Value:</b> &gt; 2920 mg/kg<br/> <b>Animal test species:</b> Rat</p> <p><b>Effect tested:</b> LC50</p> |

|                |  |
|----------------|--|
| Substance      | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane   |
| Acute toxicity | <p><b>Route of exposure:</b> Inhalation.<br/> <b>Method:</b> OECD 403<br/> <b>Duration:</b> 4 hour(s)<br/> <b>Value:</b> &gt; 23,3 mg/l<br/> <b>Animal test species:</b> Rat</p> <p><b>Effect tested:</b> LC50<br/> <b>Route of exposure:</b> Inhalation.<br/> <b>Duration:</b> 4 hour(s)<br/> <b>Value:</b> &gt; 25,2 mg/l<br/> <b>Animal test species:</b> Rat</p> <p><b>Effect tested:</b> LD50<br/> <b>Route of exposure:</b> Dermal<br/> <b>Value:</b> &gt; 2920 mg/kg</p>    |
| Substance      | Propan-2-ol  |
| Acute toxicity | <p><b>Effect tested:</b> LD50<br/> <b>Route of exposure:</b> Oral<br/> <b>Value:</b> &gt; 2000 mg/kg<br/> <b>Animal test species:</b> Rat</p> <p><b>Effect tested:</b> LD50<br/> <b>Route of exposure:</b> Dermal<br/> <b>Value:</b> &gt; 2000 mg/kg<br/> <b>Animal test species:</b> Rabbit</p> <p><b>Effect tested:</b> LC50<br/> <b>Route of exposure:</b> Inhalation.<br/> <b>Duration:</b> 8 hour(s)<br/> <b>Value:</b> &gt; 20 mg/l<br/> <b>Animal test species:</b> Rat</p> |

### Other information regarding health hazards

|   |   |
|---|---|
| Assessment of acute toxicity, classification              | Based on available data, the classification criteria are not met. |
| Assessment of skin corrosion / irritation, classification | Irritating to skin.   |
| Assessment of eye damage or irritation, classification    | Causes serious eye irritation.                                    |
| Assessment of respiratory sensitisation, classification   | Based on available data, the classification criteria are not met. |
| Assessment of skin sensitisation, classification          | Based on available data, the classification criteria are not met. |
| Assessment of germ cell mutagenicity, classification      | Based on available data, the classification criteria are not met. |
| Assessment of carcinogenicity, classification             | Based on available data, the classification criteria are not met. |
| Assessment of reproductive toxicity, classification       | Based on available data, the classification criteria are not met. |

|  |  |
|--|--|
| Assessment of specific target organ toxicity - single exposure, classification   | May cause drowsiness or dizziness.                                 |
| Assessment of specific target organ toxicity - repeated exposure, classification | Based on available data, the classification criteria are not met.  |
| Assessment of aspiration hazard, classification                                  | Aspiration hazard if swallowed - can enter lungs and cause damage. |

## Symptoms of exposure

|                         |                 |
|-------------------------|-----------------|
| In case of ingestion    | See section 4.2 |
| In case of skin contact | See section 4.2 |
| In case of inhalation   | See section 4.2 |
| In case of eye contact  | See section 4.2 |

## 11.2 Other information

|                      |                                    |
|----------------------|------------------------------------|
| Endocrine disruption | This information is not available. |
|----------------------|------------------------------------|

## SECTION 12: Ecological information

### 12.1. Toxicity

|                         |  |
|-------------------------|--|
| Substance               | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic  |
| Aquatic toxicity, fish  | <b>Toxicity type:</b> Acute<br><b>Value:</b> 13,4 mg/l<br><b>Effect dose concentration:</b> LL50<br><b>Method:</b> WAF (OECD 203)<br><br><b>Toxicity type:</b> Chronic<br><b>Value:</b> 1,53 mg/l<br><b>Effect dose concentration:</b> NOELR<br><b>Test duration:</b> 28 day(s)<br><b>Species:</b> Early-life Stage<br><b>Method:</b> QSAR |
| Substance               | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane   |
| Aquatic toxicity, fish  | <b>Toxicity type:</b> Acute<br><b>Value:</b> 11,4 mg/l<br><b>Effect dose concentration:</b> LL50<br><b>Test duration:</b> 96 hour(s)<br><b>Species:</b> Oncorhynchus mykiss  |
| Substance               | Propan-2-ol  |
| Aquatic toxicity, fish  | <b>Toxicity type:</b> Acute<br><b>Value:</b> 6550 - 11300 mg/l<br><b>Effect dose concentration:</b> LC50<br><b>Test duration:</b> 96 hour(s)   |
| Substance               | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic  |
| Aquatic toxicity, algae | <b>Toxicity type:</b> Acute  |

|                              |  |
|------------------------------|--|
|                              | <p><b>Value:</b> 10 - 30 mg/l<br/> <b>Effect dose concentration:</b> EL50<br/> <b>Test duration:</b> 72 hour(s)<br/> <b>Method:</b> WAF (OECD 201, EU Method C.3)</p> <p><b>Toxicity type:</b> Acute<br/> <b>Value:</b> 10 mg/l<br/> <b>Effect dose concentration:</b> NOELR<br/> <b>Test duration:</b> 72 hour(s)<br/> <b>Method:</b> WAF (OECD 201, EU Method C.3)</p>   |
| Substance                    | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane   |
| Aquatic toxicity, algae      | <p><b>Toxicity type:</b> Acute<br/> <b>Value:</b> 3 mg/l<br/> <b>Effect dose concentration:</b> NOELR<br/> <b>Test duration:</b> 72 hour(s)<br/> <b>Species:</b> Pseudokirchneriella subcapitata</p> <p><b>Toxicity type:</b> Acute<br/> <b>Value:</b> 30 - 100 mg/l<br/> <b>Effect dose concentration:</b> EL50<br/> <b>Test duration:</b> 72 hour(s)<br/> <b>Species:</b> Pseudokirchneriella subcapitata</p>  |
| Substance                    | Propan-2-ol  |
| Aquatic toxicity, algae      | <p><b>Toxicity type:</b> Acute<br/> <b>Value:</b> &gt; 1000 mg/l<br/> <b>Effect dose concentration:</b> EC50<br/> <b>Test duration:</b> 72 hour(s)</p>   |
| Substance                    | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic  |
| Aquatic toxicity, crustacean | <p><b>Toxicity type:</b> Acute<br/> <b>Value:</b> 3 mg/l<br/> <b>Effect dose concentration:</b> EL50<br/> <b>Test duration:</b> 48 hour(s)<br/> <b>Method:</b> WAF (OECD 202, EU Method C.2)</p> <p><b>Toxicity type:</b> Chronic<br/> <b>Value:</b> 1 mg/l<br/> <b>Effect dose concentration:</b> NOELR<br/> <b>Test duration:</b> 21 day(s)<br/> <b>Method:</b> WAF (OECD 211)</p> <p><b>Toxicity type:</b> Chronic<br/> <b>Value:</b> 0,17 mg/l<br/> <b>Effect dose concentration:</b> NOEC<br/> <b>Test duration:</b> 21 day(s)<br/> <b>Method:</b> WAF (OECD 211)</p> <p><b>Toxicity type:</b> Chronic<br/> <b>Value:</b> 0,32 mg/l<br/> <b>Effect dose concentration:</b> LOEC<br/> <b>Test duration:</b> 21 day(s)<br/> <b>Method:</b> WAF (OECD 211)</p> |

|                              |  |
|------------------------------|--|
| Substance                    | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane   |
| Aquatic toxicity, crustacean | <b>Toxicity type:</b> Acute<br><b>Value:</b> 3 mg/l<br><b>Effect dose concentration:</b> EL50<br><b>Test duration:</b> 48 hour(s)<br><b>Species:</b> Daphnia magna<br><br><b>Toxicity type:</b> Acute<br><b>Value:</b> 0,17 mg/l<br><b>Effect dose concentration:</b> NOEC<br><b>Test duration:</b> 504 hour(s)<br><b>Species:</b> Daphnia magna |
| Substance                    | Propan-2-ol  |
| Aquatic toxicity, crustacean | <b>Toxicity type:</b> Acute<br><b>Value:</b> ~ 9700 mg/l<br><b>Effect dose concentration:</b> EC50<br><b>Test duration:</b> 24 hour(s)<br><b>Species:</b> Daphnia magna  |

## 12.2. Persistence and degradability

|                            |   |
|----------------------------|---|
| Substance                  | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic                                       |
| Biodegradability           | <b>Method:</b> OECD 301 F, EU Method C.4-D<br><b>Comments:</b> Rapidly biodegradable. |
| Substance                  | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane                      |
| Biodegradability           | <b>Value:</b> 81 %<br><b>Test period:</b> 28 day(s)                                   |
| Substance                  | Propan-2-ol   |
| Biodegradability           | <b>Comments:</b> Readily biodegradable  |
| Substance                  | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic                                       |
| Abiotic degradation in air | <b>Evaluation:</b> May decompose on exposure to light.                                |

## 12.3. Bioaccumulative potential

|                             |                                    |
|-----------------------------|------------------------------------|
| Bioaccumulation, evaluation | This information is not available. |
|-----------------------------|------------------------------------|

## 12.4. Mobility in soil

|                             |  |
|-----------------------------|--|
| Substance                   | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic  |
| Surface tension             | <b>Value:</b> 22 mN/m<br><b>Test reference:</b> Wilhelmy plate method<br><b>Temperature:</b> 25 °C |
| Substance                   | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic  |
| Water / air volatility rate | <b>Comments:</b> Volatile.   |
| Substance                   | Propan-2-ol  |
| Water / air volatility rate | <b>Comments:</b> Volatile.   |

|                            |   |
|----------------------------|---|
| Substance                  | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic |
| Soil / air volatility rate | <b>Comments:</b> Volatile.                      |

### 12.5. Results of PBT and vPvB assessment

|                                    |                                    |
|------------------------------------|------------------------------------|
| Results of PBT and vPvB assessment | This information is not available. |
|------------------------------------|------------------------------------|

### 12.6. Endocrine disrupting properties

|                                 |                                    |
|---------------------------------|------------------------------------|
| Endocrine disrupting properties | This information is not available. |
|---------------------------------|------------------------------------|

### 12.7. Other adverse effects

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Additional ecological information | This information is not available. |
|-----------------------------------|------------------------------------|

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |  |
|--|--|
| Appropriate methods of disposal for the chemical               | Dispose of product residue in accordance with the instructions of the person responsible for waste disposal. Avoid putting the substance into waste water.                               |
| Appropriate methods of disposal for the contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Where possible recycling is preferred to disposal. Do not pierce or burn, even after use. |
| EU Regulations   | Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives   |

## SECTION 14: Transport information

### 14.1. UN number

|             |      |
|-------------|------|
| ADR/RID/ADN | 1950 |
| IMDG        | 1950 |
| ICAO/IATA   | 1950 |

### 14.2. UN proper shipping name

|  |                     |
|--|---------------------|
| Proper shipping name English ADR/RID/ADN | AEROSOLS            |
| ADR/RID/ADN                              | AEROSOLS            |
| IMDG                                     | AEROSOLS            |
| ICAO/IATA                                | AEROSOLS, FLAMMABLE |

### 14.3. Transport hazard class(es)

|                                 |     |
|---------------------------------|-----|
| ADR/RID/ADN                     | 2.1 |
| Classification code ADR/RID/ADN | 5F  |

### 14.4. Packing group

|          |   |
|----------|---|
| Comments | - |
|----------|---|

#### 14.5. Environmental hazards

|          |     |
|----------|-----|
| Comments | Yes |
|----------|-----|

#### 14.6. Special precautions for user

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Special safety precautions for user | This information is not available. |
|-------------------------------------|------------------------------------|

#### 14.7. Maritime transport in bulk according to IMO instruments

|              |                     |
|--------------|---------------------|
| Product name | AEROSOLS, FLAMMABLE |
|--------------|---------------------|

#### Additional information

|                          |     |
|--------------------------|-----|
| Hazard label ADR/RID/ADN | 2.1 |
|--------------------------|-----|

|                   |     |
|-------------------|-----|
| Hazard label IMDG | 2.1 |
|-------------------|-----|

|                        |     |
|------------------------|-----|
| Hazard label ICAO/IATA | 2.1 |
|------------------------|-----|

#### ADR/RID Other information

|                         |   |
|-------------------------|---|
| Tunnel restriction code | D |
|-------------------------|---|

|                  |     |
|------------------|-----|
| Limited quantity | 1 L |
|------------------|-----|

|                   |    |
|-------------------|----|
| Excepted quantity | E0 |
|-------------------|----|

|                    |                 |
|--------------------|-----------------|
| Special provisions | 190 327 344 625 |
|--------------------|-----------------|

|                    |   |
|--------------------|---|
| Transport category | 2 |
|--------------------|---|

#### ADN Other information

|                    |                 |
|--------------------|-----------------|
| Special provisions | 190 327 344 625 |
|--------------------|-----------------|

|                  |     |
|------------------|-----|
| Limited quantity | 1 L |
|------------------|-----|

|                   |    |
|-------------------|----|
| Excepted quantity | E0 |
|-------------------|----|

#### IMDG Other information

|     |          |
|-----|----------|
| EmS | F-D, S-U |
|-----|----------|

|                  |         |
|------------------|---------|
| Limited quantity | 1000 mL |
|------------------|---------|

|                   |    |
|-------------------|----|
| Excepted quantity | E0 |
|-------------------|----|

|                    |                                  |
|--------------------|----------------------------------|
| Special provisions | 63, 190, 277, 327, 344, 381, 959 |
|--------------------|----------------------------------|

#### ICAO/IATA Other information

|                  |       |
|------------------|-------|
| Limited quantity | 30 kg |
|------------------|-------|

|                   |    |
|-------------------|----|
| Excepted quantity | E0 |
|-------------------|----|

|                    |                |
|--------------------|----------------|
| Special provisions | A145 A165 A802 |
|--------------------|----------------|

|                                  |  |
|----------------------------------|--|
| Additional information ICAO/IATA | Cargo: max. 150 kg (203), Pas.: max. 75 kg (203) |
|----------------------------------|--|



## SECTION 15: Regulatory information

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

|                             |   |
|-----------------------------|---|
| Legislation and regulations | Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents The rules which cover amongst other things the requirement for ventilation, protective clothing, personal protective equipment etc. can be obtained from the National Occupational Health and Safety Board. |
|-----------------------------|---|

### 15.2. Chemical safety assessment

|                                      |    |
|--------------------------------------|----|
| Chemical safety assessment performed | No |
|--------------------------------------|----|

## SECTION 16: Other information

|  |  |
|--|--|
| List of relevant H-phrases (Section 2 and 3)   | H222 Extremely flammable aerosol.<br>H225 Highly flammable liquid and vapour.<br>H229 Pressurised container: May burst if heated.<br>H304 May be fatal if swallowed and enters airways.<br>H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness.<br>H411 Toxic to aquatic life with long lasting effects.   |
| CLP classification, notes                      | Calculation method.<br>Bridging principle "Aerosols"   |
| Training advice                                | Provide adequate information, instruction and training for operators. Take notice of the directions of use on the label. To avoid risks to man and the environment, comply with the instructions for use.  |
| Key literature references and sources for data | Information taken from reference works and the literature.<br><a href="http://echa.europa.eu">http://echa.europa.eu</a><br><a href="http://eur-lex.europa.eu">http://eur-lex.europa.eu</a><br><a href="http://echa-term.echa.europa.eu">http://echa-term.echa.europa.eu</a><br>Ingredient Safety Data Sheets   |
| Abbreviations and acronyms used                | CAS = Chemical Abstracts Service<br>CLP = Classification, Labelling and Packaging<br>DMEL = derived minimal effect level<br>DNEL = derived no-effect level<br>EC50 = The effective concentration of substance that causes 50% of the maximum response.<br>ECHA = European Chemicals Agency<br>EINECS = European Inventory of Existing Commercial Chemical Substances<br>ELINCS = European List of Notified Chemical Substances<br>EEA = European Economic Area<br>EU = European Union<br>EC number = The three European lists of substances from the previous EU chemicals regulatory framework, EINECS, ELINCS and the NLP-list, in combination are called the EC Inventory. The EC Inventory is the source for the |

|                                       |  |
|---------------------------------------|--|
|                                       | <p>seven-digit EC number, an identifier of substances commercially available within the European Union.</p> <p>GHS = Global Harmonised System</p> <p>SDS = safety data sheet</p> <p>LC50 = median lethal concentration</p> <p>LDx = lethal dose x%</p> <p>LOAEC = lowest observed adverse effect concentration</p> <p>LOAEL = lowest observed adverse effect level</p> <p>LOEC = lowest observed effect concentration</p> <p>LOEL = lowest observed effect level</p> <p>NOAEC = no observed adverse effect concentration</p> <p>NOAEL = no observed adverse effect level</p> <p>NOEC = no observed effect concentration</p> <p>NOEL = no observed effect level</p> <p>PBT = persistent, bioaccumulative and toxic</p> <p>PNEC = predicted no-effect concentration</p> <p>ppm = parts per million</p> <p>QSAR = quantitative structure-activity relationship</p> <p>REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals</p> <p>STOT = specific target organ toxicity</p> <p>UFI = unique formula identifier</p> <p>vPvB = very persistent and very bioaccumulative</p> |
| Information added, deleted or revised | Relevant changes compared to the previous version of the safety data sheet are indicated with vertical lines in the left margin.   |
| Version                               | 2  |