

SAFETY DATA SHEET

PRF Citrus Power

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 22.02.2023

1.1. Product identifier

Product name PRF Citrus Power
Article no. PICITR52

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

Use of the substance / mixture PC-CLN-2 All-purpose (or multi-purpose) non-abrasive cleaners including degreasing agents (unless otherwise specified in other subcategories of cleaning 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
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 Additional information on classification | Skin Sens. 1; H317 |
| | 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, Orange, sweet, ext. |
| Signal word | Danger |
| Hazard statements | H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. |
| Precautionary statements | P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves. P405 Store locked up. P501 Dispose of contents / container to in accordance with local and national regulations. |

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, | REACH Reg. No.: 01-2119475515-33-xxxx | Flam. Liq. 2; H225 Skin Irrit. 2; H315 | < 35 % | |

| | | | |
|---|---|---|--------|
| cyclic | | STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane | EC No.: 921-024-6 REACH Reg. No.: 01-2119475514-35-XXXX | Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411 | < 35 % |
| Orange, sweet, ext. | CAS No.: 8028-48-6 EC No.: 232-433-8 | Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | < 35 % |
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics | REACH Reg. No.: 01-2119457273-39-XXXX | Asp. Tox. 1; H304 | < 5 % |
| Substance comments | Aerosol propellants: Propane Butane Isobutane Contains: aliphatic hydrocarbons ≥ 30 %, perfumes , Limonene, Pinene 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 or rash 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. When symptoms persist or in all cases of doubt seek medical advice. |
| 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 May cause an allergic skin reaction. 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

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

5.3. Advice for firefighters

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|-------------------------------|--|
| 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. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing. |
|----------|--|

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. Comments: This information is not available. | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane | | Country of origin: FI Limit value (8 h) : 500 mg/m ³ Recommended monitoring procedures: This information is not available. Source: Decree of the Ministry of Social Affairs and Health on concentrations known to be harmful (654/2020) Comments: Solvent naphtha, group 1 | |
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics | | Country of origin: FI Limit value (8 h) : 500 mg/m ³ Recommended monitoring procedures: This information is not available. 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

Group: Professional

Route of exposure: Long-term inhalation (systemic)

Value: 2085 mg/m³

| | |
|-----------|---|
| Substance | Group: Professional Route of exposure: Long-term dermal (systemic) Value: 300 mg/kg bw/day |
| | Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 447 mg/m ³ |
| | Group: Consumer Route of exposure: Long-term dermal (systemic) Value: 149 mg/kg bw/day |
| | Group: Consumer Route of exposure: Long-term oral (systemic) Value: 149 mg/kg bw/day |
| Substance | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane |
| DNEL | Group: Professional Route of exposure: Long-term dermal (systemic) Value: 733 mg/kg bw/day |
| | Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 2035 mg/m ³ |
| | Group: Consumer Route of exposure: Long-term dermal (systemic) Value: 699 mg/kg bw/day |
| | Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 608 mg/m ³ |
| | Group: Consumer Route of exposure: Long-term oral (systemic) Value: 699 mg/kg bw/day |
| Substance | Orange, sweet, ext. |
| DNEL | Group: Professional Route of exposure: Acute dermal (local) Value: 0,1858 mg/cm ² |
| | Group: Professional Route of exposure: Long-term dermal (systemic) Value: 8,89 mg/kg bw/day |
| | Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 31,1 mg/m ³ |
| PNEC | Route of exposure: Freshwater Value: 5,4 µg/l |
| | Route of exposure: Saltwater Value: 0,54 µg/l |

Route of exposure: Freshwater sediments

Value: 1,3 mg/kg

Route of exposure: Saltwater sediments

Value: 0,13 mg/kg

Route of exposure: Soil

Value: 0,261 mg/kg

Route of exposure: Sewage treatment plant STP

Value: 2,1 mg/l

8.2. Exposure controls

Precautionary measures to prevent exposure

Appropriate engineering controls See section 7.1, 7.2

Eye / face protection

Eye protection equipment

Description: Usual safety precautions while handling the product will provide adequate protection against this potential effect. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Reference to relevant standard: SFS-EN ISO 4007:2018

SFS-EN ISO 16321-1:2022

SFS-EN ISO 18526-1:2020

SFS-EN ISO 16321-3:2022

SFS-EN ISO 16321-2:2021

SFS-EN ISO 18526-3:2020

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: Protective clothing 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 | citrus |
| 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 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>Effect tested: LD50 Route of exposure: Oral Value: > 5840 mg/kg Animal test species: Rat</p> <p>Effect tested: LD50 Route of exposure: Dermal Method: OECD 402 Value: > 2920 mg/kg Animal test species: Rat</p> <p>Effect tested: LC50 Route of exposure: Inhalation. Method: OECD 403 Duration: 4 hour(s) Value: > 23,3 mg/l Animal test species: Rat</p> |
| Substance | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane |
| Acute toxicity | <p>Effect tested: LC50 Route of exposure: Inhalation. Duration: 4 hour(s) Value: > 25,2 mg/l Animal test species: Rat</p> <p>Effect tested: LD50 Route of exposure: Dermal Value: > 2920 mg/kg</p> |
| Substance | Orange, sweet, ext. |
| Acute toxicity | <p>Effect tested: LD50 Route of exposure: Oral Value: 4400 mg/kg Animal test species: Rat</p> |
| Substance | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics |
| Acute toxicity | Effect tested: LD50 |

Route of exposure: Oral
Method: OECD 401, 423
Value: > 5000 mg/kg
Animal test species: Rat

Effect tested: LD50
Route of exposure: Dermal
Method: OECD 402
Value: > 3000 mg/kg
Animal test species: Rabbit

Effect tested: LD50
Route of exposure: Dermal
Method: OECD 402
Value: > 2000 mg/kg
Animal test species: Rat

Effect tested: LC50
Route of exposure: Inhalation.
Method: OECD 403
Duration: 4 hour(s)
Value: > 5000 mg/l
Animal test species: Rat

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 | Based on available data, the classification criteria are not met. |
| Assessment of respiratory sensitisation, classification | Based on available data, the classification criteria are not met. |
| Assessment of skin sensitisation, classification | May cause an allergic skin reaction. |
| 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 | <p>Toxicity type: Acute Value: 13,4 mg/l Effect dose concentration: LL50 Method: WAF (OECD 203)</p> <p>Toxicity type: Chronic Value: 1,53 mg/l Effect dose concentration: NOELR Test duration: 28 day(s) Species: Early-life Stage Method: QSAR</p> |
| Substance | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane |
| Aquatic toxicity, fish | <p>Toxicity type: Acute Value: 11,4 mg/l Effect dose concentration: LL50 Test duration: 96 hour(s) Species: Oncorhynchus mykiss</p> |
| Substance | Orange, sweet, ext. |
| Aquatic toxicity, fish | <p>Value: 5,65 mg/l Effect dose concentration: LC50 Test duration: 4 day(s)</p> |
| Substance | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics |
| Aquatic toxicity, fish | <p>Toxicity type: Acute Value: > 1000 mg/l Effect dose concentration: LL50 Test duration: 96 hour(s) Method: OECD 203</p> <p>Toxicity type: Chronic Value: 0,101 mg/l Effect dose concentration: NOELR Test duration: 28 day(s) Species: Early-life Stage Method: QSAR</p> |

| | |
|------------------------------|---|
| Substance | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic |
| Aquatic toxicity, algae | <p>Toxicity type: Acute Value: 10 - 30 mg/l Effect dose concentration: EL50 Test duration: 72 hour(s) Method: WAF (OECD 201, EU Method C.3)</p> <p>Toxicity type: Acute Value: 10 mg/l Effect dose concentration: NOELR Test duration: 72 hour(s) Method: WAF (OECD 201, EU Method C.3)</p> |
| Substance | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane |
| Aquatic toxicity, algae | <p>Toxicity type: Acute Value: 3 mg/l Effect dose concentration: NOELR Test duration: 72 hour(s) Species: Pseudokirchneriella subcapitata</p> <p>Toxicity type: Acute Value: 30 - 100 mg/l Effect dose concentration: EL50 Test duration: 72 hour(s) Species: Pseudokirchneriella subcapitata</p> |
| Substance | Orange, sweet, ext. |
| Aquatic toxicity, algae | <p>Value: 4,3 mg/l Effect dose concentration: EC50 Test duration: 72 hour(s)</p> |
| Substance | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics |
| Aquatic toxicity, algae | <p>Toxicity type: Acute Value: > 1000 mg/l Effect dose concentration: EL50 Test duration: 72 hour(s) Method: OECD 201</p> <p>Toxicity type: Acute Value: 1000 mg/l Effect dose concentration: NOELR Test duration: 72 hour(s) Test reference: OECD 201</p> |
| Substance | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic |
| Aquatic toxicity, crustacean | <p>Toxicity type: Acute Value: 3 mg/l Effect dose concentration: EL50 Test duration: 48 hour(s) Method: WAF (OECD 202, EU Method C.2)</p> <p>Toxicity type: Chronic Value: 1 mg/l Effect dose concentration: NOELR</p> |

| | |
|------------------------------|--|
| | <p>Test duration: 21 day(s) Method: WAF (OECD 211)</p> <p>Toxicity type: Chronic Value: 0,17 mg/l Effect dose concentration: NOEC Test duration: 21 day(s) Method: WAF (OECD 211)</p> <p>Toxicity type: Chronic Value: 0,32 mg/l Effect dose concentration: LOEC Test duration: 21 day(s) Method: WAF (OECD 211)</p> |
| Substance | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane |
| Aquatic toxicity, crustacean | <p>Toxicity type: Acute Value: 3 mg/l Effect dose concentration: EL50 Test duration: 48 hour(s) Species: Daphnia magna</p> <p>Toxicity type: Acute Value: 0,17 mg/l Effect dose concentration: NOEC Test duration: 504 hour(s) Species: Daphnia magna</p> |
| Substance | Orange, sweet, ext. |
| Aquatic toxicity, crustacean | <p>Value: 50 mg/l Effect dose concentration: EC10 Test duration: 72 hour(s)</p> |
| Substance | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics |
| Aquatic toxicity, crustacean | <p>Toxicity type: Acute Value: > 1000 mg/l Effect dose concentration: LL50 Test duration: 48 hour(s) Method: OECD 202</p> <p>Toxicity type: Chronic Value: 0,176 mg/l Effect dose concentration: NOELR Test duration: 21 day(s) Method: QSAR</p> |

12.2. Persistence and degradability

| | |
|------------------|---|
| Substance | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic |
| Biodegradability | <p>Method: OECD 301 F, EU Method C.4-D Comments: Rapidly biodegradable.</p> |
| Substance | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane |

| | |
|----------------------------|---|
| Biodegradability | Value: 81 % Test period: 28 day(s) |
| Substance | Orange, sweet, ext. |
| Biodegradability | Comments: Readily biodegradable |
| Substance | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics |
| Biodegradability | Method: OECD 301F Comments: Rapidly biodegradable. |
| Substance | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic |
| Abiotic degradation in air | Evaluation: May decompose on exposure to light. |
| Substance | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics |
| Abiotic degradation in air | Evaluation: May decompose on exposure to light. |

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

| | |
|-----------------------------|--|
| Substance | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic |
| Surface tension | Value: 22 mN/m Test reference: Wilhelmy plate method Temperature: 25 °C |
| Substance | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics |
| Surface tension | Value: < 30 mN/m Test reference: Wilhelmy plate method Temperature: 25 °C |
| Substance | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic |
| Water / air volatility rate | Comments: Volatile. |
| Substance | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic |
| Soil / air volatility rate | Comments: 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 |
| National regulations | In accordance with local and national regulations. |

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) | <p>H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H229 Pressurised container: May burst if heated. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.</p> |
| CLP classification, notes | <p>Calculation method. Bridging principle "Aerosols"</p> |
| Training advice | <p>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.</p> |
| Key literature references and sources for data | <p>Information taken from reference works and the literature. http://echa.europa.eu http://eur-lex.europa.eu http://echa-term.echa.europa.eu Ingredient Safety Data Sheets</p> |
| Abbreviations and acronyms used | <p>CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = derived minimal effect level DNEL = derived no-effect level EC50 = The effective concentration of substance that causes 50% of the maximum response. ECHA = European Chemicals Agency EINECS = European Inventory of Existing Commercial Chemical Substances ELINCS = European List of Notified Chemical Substances EEA = European Economic Area EU = European Union 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 seven-digit EC number, an identifier of substances commercially available within the European Union. GHS = Global Harmonised System SDS = safety data sheet LC50 = median lethal concentration LDx = lethal dose x% LOAEC = lowest observed adverse effect concentration LOAEL = lowest observed adverse effect level LOEC = lowest observed effect concentration LOEL = lowest observed effect level NOAEC = no observed adverse effect concentration NOAEL = no observed adverse effect level NOEC = no observed effect concentration</p> |

| | |
|---------------------------------------|--|
| | <p>NOEL = no observed effect level PBT = persistent, bioaccumulative and toxic PNEC = predicted no-effect concentration ppm = parts per million QSAR = quantitative structure-activity relationship REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals STOT = specific target organ toxicity UFI = unique formula identifier 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 | 1 |