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SAFETY DATA SHEET

PRF 2-22

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
 11.01.2023

 Revision date
 23.02.2023

1.1. Product identifier

Product name PRF 2-22
Article no. PE22222

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 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

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Substance / mixture hazardous properties
Additional information on

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)



classification

Signal word Danger

Hazard statements H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

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. P262 Do not get in eyes, on skin, or on clothing.

P410+P412 Protect from sunlight. Do no 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	Identif	fication	Classification	Contents	Notes
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics		H Reg. No.: 19457273-39-XXXX	Asp. Tox. 1; H304	< 45 %	
Substance comments	Contains: aliphatic surfactants < 5 %, p		perfumes	e atic hydrocarbons < 5 %, anic n this Section, see Section 16	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhala	ation	Remove person to fresh air and keep comfortable for breathing. When symptoms persist or in all cases of doubt seek medical advice.
Skin o	contact	Rinse skin with water/shower. When symptoms persist or in all cases of doubt seek medical advice.
Eye co	ontact	Rinse cautiously with water for several minutes. Remove contact lenses, if

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	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

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 (CO2) 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	Try to prevent the material from entering drains or water courses.
measures	

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

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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.

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 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, C10-C13, Country of origin: FI n-alkanes, isoalkanes, cyclic, Limit value (8 h): 500 mg/ <2% aromatics 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)

8.2. Exposure controls

Precautionary measures to prevent exposure

Appropriate engineering controls See section 7.1, 7.2

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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: 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. 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: 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,

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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

3F3-EN 130 1399

SFS-EN ISO 13997

SFS-EN ISO 14116

SFS-EN 15090

CEN ISO/TR 18690

Respiratory protection

Recommended respiratory protection

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. 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

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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: foam aerosol
Colour	clear
Odour	odourized
Odour limit	Reason for waiving data: No data.
рН	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.

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Lower explosion limit with unit of

measurement

Upper explosion limit with units of

measurement

Vapour pressure

Vapour density

Particle characteristics

Relative density

Density

Solubility

Partition coefficient: n-octanol/

water

Auto-ignition temperature

Decomposition temperature

Viscosity

Reason for waiving data: No data.

Reason for waiving data: No data.

Reason for waiving data: No data.

Reason for waiving data: Not applicable

Comments: This information is not available.

Reason for waiving data: No data.

Reason for waiving data: Not applicable

Reason for waiving data: Not applicable

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

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SECTION 11: Toxicological information

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

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

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Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data, the classification criteria are not met.
Assessment of aspiration hazard,	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.
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SECTION 12: Ecological information

12.1. Toxicity

Substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics
Aquatic toxicity, fish	Toxicity type: Acute Value: > 1000 mg/l Effect dose concentration: LL50 Test duration: 96 hour(s) Method: OECD 203 Toxicity type: Chronic Value: 0,101 mg/l Effect dose concentration: NOELR Test duration: 28 day(s) Species: Early-life Stage Method: QSAR
Substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics
Aquatic toxicity, algae	Toxicity type: Acute Value: > 1000 mg/l Effect dose concentration: EL50 Test duration: 72 hour(s) Method: OECD 201 Toxicity type: Acute Value: 1000 mg/l Effect dose concentration: NOELR Test duration: 72 hour(s) Test reference: OECD 201
Substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics
Aquatic toxicity, crustacean	Toxicity type: Acute Value: > 1000 mg/l Effect dose concentration: LL50

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Test duration: 48 hour(s) **Method**: OECD 202

Toxicity type: Chronic **Value:** 0,176 mg/l

Effect dose concentration: NOELR

Test duration: 21 day(s)

Method: QSAR

12.2. Persistence and degradability

Substance Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics

Biodegradability Method: OECD 301F

Comments: Rapidly biodegradable.

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

Bioaccumulation, evaluation This information is not available.

12.4. Mobility in soil

Substance Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics

Surface tension Value: < 30 mN/m

Test reference: Wilhelmy plate method

Temperature: 25 °C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This information is not available.

assessment

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

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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	AEROSOLS
ADR/RID/ADN	
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

Product name

Comments	-
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14.5. Environmental hazards

Comments	No

14.6. Special precautions for user

Special safety precautions for user This information is not available.

AEROSOLS, FLAMMABLE

14.7. Maritime transport in bulk according to IMO instruments

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	1L
Excepted quantity	E0
Special provisions	190 327 344 625

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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 Me States relating to aerosol dispensers Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents The rules which co 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	No
	INO
performed	

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H304 May be fatal if swallowed and enters airways.
CLP classification, notes	Calculation method. 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.

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Key literature references and sources for data	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
Abbreviations and acronyms used	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 adverse effect concentration NOAEL = no observed adverse effect level NOAEC = no observed adverse effect level NOEC = no observed effect concentration NOAEL = no observed effect concentration NOAEL = 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 PVPB = very persistent and very bioaccumulative
Information added, deleted or revised Version	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
VCI 31011	2