SAFETY DATA SHEET

PRF Degreaser Plus

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 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	19.10.2017
١	Revision date	12.06.2021

1.1. Product identifier

Product name	PRF Degreaser Plus
Article no.	PIDEGP52

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

Use of the substance / mixture	Cleaning agent
Main intended use	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

Aerosol 1; H229

Skin Irrit. 2; H315

Eye Irrit. 2; H319

STOT SE 3; H336

Aquatic Chronic 2; H411

Additional information on classification

For the full text of the H-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, Propan-2-ol,

1-methoxypropan-2-ol

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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. 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

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance Identification Classification Contents Notes Hydrocarbons, C7, REACH Reg. No.: Flam. Liq. 2; H225 30 - 40 % n-alkanes, isoalkanes, 01-2119475515-33-xxxx Skin Irrit. 2; H315 cyclic STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411

CAS No.: 67-63-0 10 - 20 % Propan-2-ol Flam. Liq. 2; H225 EC No.: 200-661-7 Eye Irrit. 2; H319 STOT SE 3; H336 REACH Reg. No.: 01-2119457558-25-XXXX 1-methoxypropan-2-ol CAS No.: 107-98-2 Flam. Liq. 3; H226 5 - 15 % EC No.: 203-539-1 STOT SE 3; H336 REACH Reg. No.: 01-2119457435-29-XXXX

Substance comments Aerosol propellants: Propane Butane

For the full text of the H-statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position 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. When symptoms persist or in all cases of doubt seek medical advice.

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

General symptoms and effects Skin irritation Eye irritation Drowsiness

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 Alcohol-resistant foam

Improper extinguishing media Water spray

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Heating may cause an explosion.
Hazardous combustion products	Carbon dioxide (CO2) Carbon monoxide (CO)

5.3. Advice for firefighters

Personal protective equipment	Protective equipment and precautions for firefighters 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.
Fire fighting procedures	Use water spray to cool unopened containers. In case of major fire and large

quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Eliminate all ignition sources if safe to do so. Evacuate area. Stop leak if safe to

do so. Ensure adequate ventilation.

For emergency responders

Use personal protective equipment.

6.2. Environmental precautions

Environmental precautionary measures

Try to prevent the material from entering drains or water courses. Avoid release

to the environment.

6.3. Methods and material for containment and cleaning up

Containment Prevent further leakage or spillage if safe to do so.

Clean up Absorb spillage to prevent material damage.

Other information 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

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Do not taste or swallow. Wash hands before breaks and immediately after handling the product. Remove all sources of ignition. Take precautionary measures against static discharges. Non-sparking tools should be used. Use only outdoors or in a well-ventilated area.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Remove all sources of ignition. Protect from sunlight. Do not expose to temperatures exceeding 50 °C /122 °F. No smoking. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Do not store together with oxidizing and self-igniting products. Keep away from oxidising agents and strongly acid or alkaline materials. Keep away from food, drink and animal feedingstuffs.

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

PRF Degreaser Plus - Version 2 Hydrocarbons, C7, n-alkanes, Recommended monitoring isoalkanes, cyclic procedures: This information is not available. Comments: This information is not available. Propan-2-ol CAS No.: 67-63-0 Country of origin: FI Limit value (8 h): 200 ppm Limit value (8 h): 500 mg/ m_3 Limit value (short term) Value: 250 ppm Limit value (short term) Value: 620 mg/m³ Limit value (short term) Appraisal period: 15 min 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) 1-methoxypropan-2-ol CAS No.: 107-98-2 Country of origin: EU Limit value (8 h): 100 ppm Limit value (8 h): 375 mg/ m³ Limit value (short term) Value: 150 ppm Limit value (short term) Appraisal period: 15 min

Limit value (short term) Value: 568 mg/m³ Limit value (short term) Appraisal period: 15 min Recommended monitoring procedures: This information is not available. Source: 2000/39/EC Comments: Skin Country of origin: FI Limit value (8 h): 100 ppm Limit value (8 h): 375 mg/

Limit value (short term)

Value: 150 ppm

Limit value (short term) Appraisal period: 15 min Limit value (short term) Value: 568 mg/m³ Limit value (short term) Appraisal period: 15 min Recommended monitoring

procedures: This

information is not available. Source: 2000/39/EC Comments: Skin

DNEL / PNEC

Substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic DNEL **Group:** Professional Route of exposure: Long-term inhalation (systemic) Value: 2085 mg/m³ **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/m³ 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

8.2. Exposure controls

Precautionary measures to prevent exposure

engineering controls	rols See section 7.1, 7.2	
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Eye / face protection

Eye protection equipment	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.
	Reference to relevant standard: EN 166

Hand protection

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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.
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: EN 374, EN 420

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.

Respiratory protection

Recommended respiratory protection

Description: Avoid breathing vapours/spray. 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: EN 140, EN 141, EN 149, EN 14387

Thermal hazards

Thermal hazards

measurement

Not applicable.

Appropriate environmental exposure control

Environmental exposure controls

Try to prevent the material from entering drains or water courses. Discharge into the environment must be avoided.

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 Value: < 0 °C

Evaporation rate Reason for waiving data: No data.

Flammability Extremely flammable aerosol.

Lower explosion limit with unit of Reason for waiving data: No data.

Upper explosion limit with units of Reason for waiving data: No data.

measurement

Vapour pressure Reason for waiving data: No data.

Vapour density Reason for waiving data: No data.

Relative density Reason for waiving data: No data.

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: No data.

Decomposition temperature Reason for waiving data: No data.

Viscosity Reason for waiving data: No data.

Explosive properties This information is not available.

Oxidising properties This information is not available.

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 This information is not available.

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 7.2

10.6. Hazardous decomposition products

Hazardous decomposition See section 5.2 products

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 Effect tested: LD50

Route of exposure: Oral **Value:** > 5840 mg/kg

Animal test species: Rat Effect tested: LD50 Route of exposure: Dermal Method: OECD 402 **Value:** > 2920 mg/kg Animal test species: Rat Effect tested: LC50 Route of exposure: Inhalation. Method: OECD 403 Duration: 4 hour(s) **Value:** > 23,3 mg/l Animal test species: Rat Substance Propan-2-ol Acute toxicity Effect tested: LD50 Route of exposure: Oral **Value:** > 2000 mg/kg Animal test species: Rat Effect tested: LD50 Route of exposure: Dermal **Value:** > 2000 mg/kg Animal test species: Rabbit Effect tested: LC50 Route of exposure: Inhalation. **Duration:** 8 hour(s) **Value:** > 20 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.
Substance	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic
Skin corrosion / irritation test result	Method: OECD 404 Evaluation result: Irritating to skin. Repeated exposure may cause skin dryness or cracking.
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	Aspiration hazard if swallowed - can enter lungs and cause damage.
In case of skin contact	Skin irritation
In case of inhalation	Dizziness Drowsiness
In case of eye contact	Eye irritation

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

Toxicity type: Acute **Value:** 10 mg/l

Effect dose concentration: NOELR

Test duration: 72 hour(s)

Method: WAF (OECD 201, EU Method C.3)

Substance Propan-2-ol

Aquatic toxicity, algae **Toxicity type**: Acute **Value**: > 1000 mg/l

Effect dose concentration: EC50 Test duration: 72 hour(s)

Substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

Aquatic toxicity, crustacean Toxicity type: Acute Value: 3 mg/l

Effect dose concentration: EL50 Test duration: 48 hour(s)

Method: WAF (OECD 202, EU Method C.2)

Toxicity type: Chronic **Value:** 1 mg/l

Effect dose concentration: NOELR

Test duration: 21 day(s) **Method:** WAF (OECD 211)

Toxicity type: Chronic **Value:** 0,17 mg/l

Effect dose concentration: NOEC

Test duration: 21 day(s) **Method:** WAF (OECD 211)

Toxicity type: Chronic **Value:** 0,32 mg/l

Effect dose concentration: LOEC Test duration: 21 day(s) Method: WAF (OECD 211)

Substance Propan-2-ol

Aquatic toxicity, crustacean **Toxicity type:** Acute **Value:** ~ 9700 mg/l

Effect dose concentration: EC50 Test duration: 24 hour(s) Species: Daphnia magna

12.2. Persistence and degradability

Substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

Biodegradability Method: OECD 301 F, EU Method C.4-D

Comments: Rapidly biodegradable.

Substance Propan-2-ol

Biodegradability Comments: Readily biodegradable

Substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

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, C7, n-alkanes, isoalkanes, cyclic

Surface tension Value: 22 mN/m
 Test reference: Wilhelmy plate method
 Temperature: 25 °C

Substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

Water / air volatility rate Comments: Volatile.

Substance Propan-2-ol

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 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 in accordance with local regulations. Dispose of product residue in accordance with the instructions of the person responsible for waste disposal. Try to prevent the material from entering drains or water courses.

Appropriate methods of disposal for the contaminated packaging

Dispose of in accordance with local regulations or water courses.

Dispose of contents/container in accordance with local regulation. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not pierce or burn, even after use.

EU Regulations

Dispose of in accordance with local regulations. Dispose of product residue in accordance with the instructions of the person responsible for waste disposal. Try to prevent the material from entering drains or water courses.

Dispose of contents/container in accordance with local regulation. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not pierce or burn, even after use.

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
Classificaton code ADR/RID/ADN	5F
Comments	2

14.4. Packing group

Product name

Comments	-				
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14.5. Environmental hazards

Comments	Toxic to aquatic life with long lasting effects.

AEROSOLS, FLAMMABLE

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

2.1

Additional information		
Hazard label ADR/RID/ADN	2.1	
Hazard label IMDG	2.1	

ADR/RID Other information

Hazard label ICAO/IATA

Tunnel restriction code	D
Limited quantity	1L
Excepted quantity	E0
Special provisions	190 327 344 625
Transport category	2

ADN Other information

Special provisions	190 327 344 625
Limited quantity	1L
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 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

Chamical asfaty assassment	
Chemical safety assessment	No
norformed	
performed	

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	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. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.
CLP classification, notes	Calculation method.
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.
Information added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
Version	2
Comments	The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.