SAFETY DATA SHEET

PRF Stainless steel polish

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

1.1. Product identifier

Product name PRF Stainless steel polish
Article no. PISSP052

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,H229

Substance / mixture hazardous	May exp
properties	
Additional information on	For the

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.

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	Identification	Classification	Contents	Notes
Ethanol	CAS No.: 64-17-5 REACH Reg. No.: 01-2119457610-43-XXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 X	≤ 15 %	
1-methoxypropan-2-ol	CAS No.: 107-98-2 EC No.: 203-539-1 REACH Reg. No.: 01-2119457435-29-XXX	Flam. Liq. 3; H226 STOT SE 3; H336	≤ 5 %	
Substance comments	Contains: alipha Ammonium Chlo 0,50 g/kg, perfur Specific Conc. L	nts: Propane Butane Isobu tic hydrocarbons 5 - 15 %, ¢ pride 0,50 g/kg, n-Alkyl Dim mes imits: Ethanol Eye Irrit. 2 ≥ of the statements mention	disinfectants n-Alkyl Di nethyl Ethylbenzyl Amm 50 %	onium Chloride

SECTION 4: First aid measures

4.1. Description of first aid measures

	persist or in all cases of doubt seek medical advice.
Skin contact	Rinse skin with water/shower. When symptoms persist or in all cases of doubt seek medical advice.
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 None known.

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 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.

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
Ethanol	CAS No.: 64-17-5	Country of origin: FI Limit value (8 h): 1000 ppm Limit value (8 h): 1900 mg/	
		m³	
		Limit value (short term)	
		Value: 1300 ppm	
		Limit value (short term)	
		Appraisal period: 15 min	
		Limit value (short term)	
		Value: 2500 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/

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

DNEL / PNEC

Substance	Ethanol
DNEL	Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 950 mg/m³
	Group: Professional Route of exposure: Acute inhalation (local) Value: 1900 mg/m³
	Group: Professional Route of exposure: Long-term dermal (systemic)

Value: 343 mg/kg bw/day

Group: Consumer

Route of exposure: Acute inhalation (local)

Value: 950 mg/m³

Group: Consumer

Route of exposure: Long-term dermal (systemic)

Value: 206 mg/kg bw/day

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 114 mg/m³
Group: Consumer

Route of exposure: Long-term oral (systemic)

Value: 87 mg/kg bw/day

PNEC Route of exposure: Freshwater

Value: 0,96 mg/l

Route of exposure: Soil **Value:** 0,63 mg/kg

Route of exposure: Saltwater

Value: 0,79 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

Hand protection equipment

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:

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.

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, 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 1149-3
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

SFS-EN 1149-2

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

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 alcohol-like Odour limit Reason for waiving data: No data. рΗ 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 Reason for waiving data: No data. measurement 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: 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/ Reason for waiving data: No data. water 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 S

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

Ethanol

Acute toxicity

Effect tested: LD50

Route of exposure: Dermal Value: 10470 mg/kg Animal test species: Rat

Effect tested: LD50 Route of exposure: Dermal Value: 15800 mg/kg Animal test species: Rabbit

Effect tested: LC50

Route of exposure: Inhalation.

Duration: 4 hour(s) **Value:** 51 - 55 mg/l **Animal test species:** Rat

Effect tested: LC50

Route of exposure: Inhalation.

Duration: 1 hour(s)

Value: 30000 mg/m³
Animal test species: Mouse

Other information regarding health hazards

Assessment of acute toxicity, Based on available data, the classification criteria are not met. classification Assessment of skin corrosion / Based on available data, the classification criteria are not met. irritation, classification Assessment of eye damage or Based on available data, the classification criteria are not met. irritation, classification Assessment of respiratory Based on available data, the classification criteria are not met. sensitisation, classification Assessment of skin sensitisation, Based on available data, the classification criteria are not met. classification Assessment of germ cell Based on available data, the classification criteria are not met. mutagenicity, classification Assessment of carcinogenicity, Based on available data, the classification criteria are not met. classification Assessment of reproductive Based on available data, the classification criteria are not met. toxicity, classification Assessment of specific target Based on available data, the classification criteria are not met. organ toxicity - single exposure, classification Assessment of specific target Based on available data, the classification criteria are not met. organ toxicity - repeated exposure, classification Assessment of aspiration hazard, Based on available data, the classification criteria are not met. classification

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 Ethanol

Aquatic toxicity, fish Value: 11200 mg/l

Effect dose concentration: LC50 Exposure time: 96 hour(s)

Substance Ethanol

Aquatic toxicity, crustacean Value: 5012 mg/l

Effect dose concentration: EC50
Test duration: 48 hour(s)
Comments: Fresh water

Value: 857 mg/l

Effect dose concentration: EC50 Test duration: 48 hour(s) Comments: Marine water

Substance Ethanol

Plant toxicity Value: 633 mg/kg

Effect dose concentration: EC50

12.2. Persistence and degradability

Substance Ethanol

Biodegradability Value: > 80 %

Test reference: OECD TG 301 **Comments:** Readily biodegradable

Test period: 4 day(s)

12.3. Bioaccumulative potential

Bioaccumulation, evaluation This information is not available.

12.4. Mobility in soil

Substance Ethanol

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 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

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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.

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

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	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 Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents Regulation (EU) No 528/2012 of the European Parliament and of the Council concerning the making available on the market and use of biocidal products 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	

SECTION 16: Other information

	H222 Extremely flammable aerosol.
2 and 3)	H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. 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. Key literature references and Information taken from reference works and the literature. sources for data 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 effect concentration LOEL = lowest observed effect level NOAEC = no observed adverse effect concentration NOAEL = no observed adverse effect level NOEC = no observed effect concentration 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

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	1