

SAFETY DATA SHEET

PRF Cold Spray 101 FL

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 27.01.2022

1.1. Product identifier

Product name PRF Cold Spray 101 FL

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

Use of the substance / preparation 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 Aerosol 1; H222

[CLP / GHS] Aerosol 1; H229

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)



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 not 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 comments	No dangerous ingredients according to Regulation (EC) No. 1907/2006. Aerosol propellants: Propane Butane Isobutane
--------------------	---

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.
Skin contact	Rinse skin with water/shower. Treat frost-bitten areas as needed. 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. Immediately call a POISON CENTER or doctor/physician.
Ingestion	DO NOT induce vomiting unless directed to do so by a physician or poison control centre. Immediately call a POISON CENTER or doctor/physician.

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

General symptoms and effects	The product causes burns of eyes, skin and mucous membranes. Contact with vapour causes burns to skin and eyes and contact with liquid causes freezing. Ingestion causes burns of the upper digestive and respiratory tracts.
------------------------------	---

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	ABC powder
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 (CO ₂) 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	No special environmental precautions required.
--------------------------------------	--

6.3. Methods and material for containment and cleaning up

Containment	Prevent further leakage or spillage if safe to do so.
Clean up	Not applicable.
Other information	Non-sparking tools should be used. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

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. Keep only in original container. 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

Control parameters comments	This information is not available.
-----------------------------	------------------------------------

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: EN 166
--------------------------	---

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.
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. Reference to relevant standard: EN 374, EN 420

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.
---------------------------------	---

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: EN 140, EN 141, EN 149, EN 14387
------------------------------------	---

Thermal hazards

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

Appropriate environmental exposure control

Environmental exposure controls	No special environmental precautions required.
---------------------------------	--

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Aerosol dispenser: spray aerosol
Colour	Not applicable.
Odour	odourless
Odour limit	Reason for waiving data: No data.
pH	Comments: Not applicable.
Melting point / melting range	Reason for waiving data: No data.
Boiling point / boiling range	Value: - 26 °C
Flash point	Reason for waiving data: No data.
Evaporation rate	Reason for waiving data: No data.
Flammability	Extremely flammable aerosol.
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: 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 products	See section 5.2
-------------------------------------	-----------------

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

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

Ecotoxicity	This information is not available.
-------------	------------------------------------

12.2. Persistence and degradability

Biodegradability	Method: QSAR Comments: Readily biodegradable
------------------	---

12.3. Bioaccumulative potential

Bioaccumulation, evaluation	Does not bioaccumulate.
-----------------------------	-------------------------

12.4. Mobility in soil

Mobility	This information is not available.
----------	------------------------------------

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
------------------------------------	---

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.
Appropriate methods of disposal for the contaminated packaging	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	Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives

SECTION 14: Transport information

14.1. UN number

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

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

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

14.4. Packing group

Comments	-
----------	---

14.5. Environmental hazards

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

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 The rules which cover amongst other things the requirement for ventilation, protective clothing, personal protective equipment etc. can be obtained from the National Occupational Health and Safety Board.
-----------------------------	---

15.2. Chemical safety assessment

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

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.
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. http://echa.europa.eu http://eur-lex.europa.eu Ingredient Safety Data Sheets
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