

**SAFETY DATA SHEET****PRF Ipafluid**

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 10.01.2023

Revision date 16.02.2023

**1.1. Product identifier**

Product name PRF Ipafluid

Article no. PEIPA45

**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](http://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] Flam. Liq. 2; H225  
Eye Irrit. 2; H319

Substance / mixture hazardous properties	STOT SE 3; H336
Additional information on classification	Volatile. 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	Propan-2-ol
Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
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. P233 Keep container tightly closed. P261 Avoid breathing vapours. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

PBT / vPvB	See section 12.5
Health effect	See section 11.2

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Substance	Identification	Classification	Contents	Notes
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 REACH Reg. No.: 01-2119457558-25-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	100 %	
Substance comments	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

Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove/Take off immediately all contaminated clothing. 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. If eye irritation persists: Get medical advice/attention.
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	Eye irritation Drowsiness Dizziness
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## 4.3. Indication of any immediate medical attention and special treatment needed

Medical treatment	Treat symptomatically.
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## 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	Vapours may form explosive mixture with air.
Hazardous combustion products	Carbon dioxide (CO <sub>2</sub> ) 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 measures	Try to prevent the material from entering drains or water courses.
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### 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
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	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. Use explosion-proof equipment.

## 6.4. Reference to other sections

Other instructions	See section 7, 8, 13
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## 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. Use explosion-proof equipment. 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. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing vapours/spray. Use only outdoors or in a well-ventilated area.
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### 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. Use explosion-proof equipment. Protect from sunlight. Do not expose to temperatures exceeding 50 °C /122 °F. Keep away from food, drink and animal feedingstuffs. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Keep only in original container. Store locked up.
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### 7.3. Specific end use(s)

Specific use(s)	None known.
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## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
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 <sup>3</sup> <b>Limit value (short term)</b> Value: 250 ppm <b>Limit value (short term)</b> Value: 620 mg/m <sup>3</sup> <b>Limit value (short term)</b> 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)

## 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: 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: SEN 166FS-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.
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### Appropriate environmental exposure control

Environmental exposure controls	See section 6.2
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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	clear
Odour	alcohol-like
Odour limit	Reason for waiving data: No data.

pH	Comments: Not applicable.
Melting point / melting range	Value: - 88 °C
Boiling point / boiling range	Value: ~ 82 °C
Flash point	Value: ~ 12 °C
Evaporation rate	Value: 1,5 Comments: n-BuAc = 1
Flammability	This information is not available.
Lower explosion limit with unit of measurement	Value: 2 %
Upper explosion limit with units of measurement	Value: ~ 12 %
Vapour pressure	Value: > 4 kPa Temperature: 20 °C Reason for waiving data: No data.
Vapour density	Value: ~ 2 Temperature: 20 °C Reason for waiving data: No data.
Particle characteristics	Reason for waiving data: Not applicable
Relative density	Value: 0,78 - 0,80 Temperature: 20 °C Reason for waiving data: No data.
Density	Reason for waiving data: No data.
Solubility	Medium: Water
Partition coefficient: n-octanol/ water	Value: ~ 0,05
Auto-ignition temperature	Reason for waiving data: No data.
Decomposition temperature	Reason for waiving data: No data.
Viscosity	Value: 2,43 mPa.s Temperature: 20 °C Type: Dynamic

## 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
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### 10.4. Conditions to avoid

Conditions to avoid	See section 7.1, 7.2
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### 10.5. Incompatible materials

Materials to avoid	See section 7.1, 7.2
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### 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	Propan-2-ol
Acute toxicity	<b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Value:</b> > 2000 mg/kg <b>Animal test species:</b> Rat
	<b>Effect tested:</b> LD50 <b>Route of exposure:</b> Dermal <b>Value:</b> > 2000 mg/kg <b>Animal test species:</b> Rabbit
	<b>Effect tested:</b> LC50 <b>Route of exposure:</b> Inhalation. <b>Duration:</b> 8 hour(s) <b>Value:</b> > 20 mg/l <b>Animal test species:</b> 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	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	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.
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## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Propan-2-ol
Aquatic toxicity, fish	<b>Toxicity type:</b> Acute <b>Value:</b> 6550 - 11300 mg/l <b>Effect dose concentration:</b> LC50 <b>Test duration:</b> 96 hour(s)
Substance	Propan-2-ol
Aquatic toxicity, algae	<b>Toxicity type:</b> Acute <b>Value:</b> > 1000 mg/l <b>Effect dose concentration:</b> EC50 <b>Test duration:</b> 72 hour(s)
Substance	Propan-2-ol
Aquatic toxicity, crustacean	<b>Toxicity type:</b> Acute <b>Value:</b> ~ 9700 mg/l <b>Effect dose concentration:</b> EC50 <b>Test duration:</b> 24 hour(s) <b>Species:</b> Daphnia magna

### 12.2. Persistence and degradability

Substance	Propan-2-ol
Biodegradability	<b>Comments:</b> Readily biodegradable

### 12.3. Bioaccumulative potential

Bioaccumulation, evaluation	This information is not available.
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## 12.4. Mobility in soil

Substance	Propan-2-ol
Water / air volatility rate	<b>Comments:</b> Volatile.

## 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
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## 12.6. Endocrine disrupting properties

Endocrine disrupting properties	This information is not available.
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## 12.7. Other adverse effects

Additional ecological information	This information is not available.
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# 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.
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	1219
IMDG	1219
ICAO/IATA	1219

## 14.2. UN proper shipping name

Proper shipping name English ADR/RID/ADN	ISOPROPANOL
ADR/RID/ADN	ISOPROPANOL
IMDG	ISOPROPANOL
ICAO/IATA	ISOPROPANOL

## 14.3. Transport hazard class(es)

ADR/RID/ADN	3
Classification code ADR/RID/ADN	F1

#### 14.4. Packing group

ADR/RID/ADN	II
IMDG	II
ICAO/IATA	II

#### 14.5. Environmental hazards

Comments	No
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#### 14.6. Special precautions for user

Special safety precautions for user	This information is not available.
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#### 14.7. Maritime transport in bulk according to IMO instruments

Product name	ISOPROPANOL
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#### Additional information

Hazard label ADR/RID/ADN	3
Hazard label IMDG	3
Hazard label ICAO/IATA	3

#### ADR/RID Other information

Tunnel restriction code	D/E
Transport category	2
Hazard No.	33

#### IMDG Other information

EmS	F-E, S-D
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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

Legislation and regulations	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.
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#### 15.2. Chemical safety assessment

Chemical safety assessment performed	No
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## SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
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. <a href="http://echa.europa.eu">http://echa.europa.eu</a> <a href="http://eur-lex.europa.eu">http://eur-lex.europa.eu</a> <a href="http://echa-term.echa.europa.eu">http://echa-term.echa.europa.eu</a> 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

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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