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SAFETY DATA SHEET

PRF Butangas

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 05.07.2017

Revision date 15.11.2023

1.1. Product identifier

Product name	PRF Butangas
Article no.	PIBUTA40

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

Use of the substance / mixture	Filling bottle for gas pistols PC-TEC-OTH Other products for chemical or technical
	processes

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
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to	Aerosol 1; H222
Regulation (EC) No 1272/2008	
[CLP / GHS]	Aerosol 1; H229

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Substance / mixture hazardous May explode if heated Vapours may form explosive mixture with air. properties Additional information on

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 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. 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. 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.

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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

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. Vapours may form explosive mixture with air.

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. In case of

inadequate ventilation wear respiratory protection. See section 8.2

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. Use personal protective equipment. See

section 8.2

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.

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

Not applicable.

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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

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. Use only outdoors or in a well-ventilated area.

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

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

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Reference to relevant standard: EN 374, EN 420

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.

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 See section 6.2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form Aerosol dispenser: spray aerosol Colour Ei sovellettavissa. Odour odourless **Odour limit** Reason for waiving data: No data. рН Comments: Ei sovellettavissa. Melting point / melting range Reason for waiving data: No data. Boiling point / boiling range Comments: -26°C Flash point Reason for waiving data: Not applicable PRF Butangas - Version 3 Page 6 of 11

Flammability

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/

Auto-ignition temperature

Decomposition temperature

Viscosity

Not applicable.

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: Tietoa ei saatavilla.

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

Tietoa ei saatavilla.

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

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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

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	Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
	Assessment of eye damage or irritation, classification	Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
•	Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
	Assessment of skin sensitisation, classification	Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
•	Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
	Assessment of carcinogenicity, classification	Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
	Assessment of reproductive toxicity, classification	Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
	Assessment of specific target organ toxicity - single exposure, classification	Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
	Assessment of specific target organ toxicity - repeated exposure, classification	Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
	Assessment of aspiration hazard, classification	Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

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.

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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 information is not available.

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	AEROSOLS
ADR/RID/ADN	
ADR/RID/ADN	AEROSOLS
IMDG	AEROSOLS

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ICAO/IATA AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

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

14.4. Packing group

Comments

14.5. Environmental hazards

Comments No

14.6. Special precautions for user

Special safety precautions for user Tietoa ei saatavilla.

14.7. Maritime transport in bulk according to IMO instruments

Product name	AEROSOLS, FLAMMABLE
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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

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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.

Bridging principle "Aerosols"

Training advice Provide adequate information, instruction and training for operators. 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

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

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	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 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 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.
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