

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PRF BUTANGAS

Date: 03/08/2005

Supplier: Taerosol Oy
Aakkulantie 21, 36220 Kangasala, Finland
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients considered hazardous to health:

<u>CAS-number</u>	<u>Chemical name</u>	<u>Concentration</u>	<u>Symbol / Risk phrases</u>
74-98-6	Propane	40-60 %	F+, R12
106-97-8	Butane	40-60 %	F+, R12

3. HAZARDS IDENTIFICATION

Extremely flammable. May cause frostbite due to low boiling point. Narcotic with high vapour concentration.

4. FIRST AID MEASURES

Eye contact: Flush thoroughly with water. If irritation continues, call a doctor.

Skin contact: Wash contact areas with soap and water. If irritation continues, call a doctor. Polluted clothes may be flammable, they must be moisten before taking off. Clothes must be washed before used again.

Inhalation: If unusual tiredness and queasiness occurs when breathing big concentrations, go to fresh air. If continuing call a doctor.

Ingestion: -

5. FIRE-FIGHTING MEASURES

Extinguishing media: Carbon dioxide, foam, powder and sand for small fires.

Special fire fighting procedures: Risk of explosion if the cans overheat in fire and the pressure rises.

Special protective equipment: Normal protective equipments.

Other recommendations: Do not extinguish with strong water-jet.

6. ACCIDENTAL RELEASE MEASURES

Notification procedures: Dispose material according to current applicable laws and regulations.

Procedures if material is released or spilled: -

Environmental precautions: Prevent spills from entering to groundwater.

Personal precautions: Evacuate all unnecessary people.

7. HANDLING AND STORAGE

Handling: Breathing the vapours and continuous or repeated contacts to skin must be avoided.

Storage: In storage appropriate for extremely flammable aerosols. Keep away from sources of ignition. No smoking. Keep away from children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Adequate ventilation is recommended.

Respiratory protection: -

Eye protection: Normal industrial eye protection practices should be employed.

Skin protection: All contacts to skin must be avoided. If necessary use PVC-gloves.

Exposure limits:

Propane	
800 ppm (8 h)	1100 ppm (15 min)
1500 mg/m ³ (8h)	2000 mg/m ³ (15min)

Butane

800 ppm (8 h)	1000 ppm (15 min)
1900 mg/m ³ (8 h)	2350 mg/m ³ (15 min)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor:	Clear, colourless gas
Boiling point:	-20 °C (Prop / But.)
Melting point:	-
Flash point:	less < 0°C
Auto flammability:	-
Density:	545 kg/m ³
Vapour pressure:	-
Viscosity at 40 °C:	-
Solubility in water:	Slightly soluble

10. STABILITY AND REACTIVITY

-

11. TOXICOLOGICAL DATA

Inhalation: Narcotic with high vapour concentration. Risk for suffocation with very high concentrations.

Eye irritation: -

Skin irritation: Liquid may cause frostbites; eyes and skin

Ingestion: -

Other acute toxicity: -

12. ECOLOGICAL INFORMATION

Environmental fate and effects: -

Additional: Slightly soluble in water. Evaporates partly from water or soil.

13. DISPOSAL CONSIDERATIONS

Waste disposal: Empty cans must be disposed according to laws and environment officials.

14. TRANSPORT INFORMATION

Technical aerosol

UN-Number: 1950

ICAO/IATA: 2.1
RID/ADR: 2 (ADR)
Packing group: 2
IMDG: 2.1 **EmS code** F-D, S-U

15. REGULATORY INFORMATION

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding +50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition. No smoking. Keep away from children.

Warning symbol(s)

F+ Extremely flammable



Risk phrase(s)

R 12 Extremely flammable

Safety phrase(s)

S 2 Keep out of the reach of children.
S 16 Keep away from sources of ignition – No smoking

16. OTHER INFORMATION

List of Risk phrases regarding the chemicals

R 12 Extremely flammable

Source of information

The information contained herewith is based on the information from raw material deliverers