

**Product: FRILJET**

SDS no 239803

Created: 04/06/1998

Updated: 18/11/2015

**1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 PRODUCT identification**

**FRILJET**

**1.2 Relevant use of mixture**

**Cryoanaesthesia - Pulp vitality test**

**1.3 Information concerning safety data sheet supplier**

PRODUITS DENTAIRE PIERRE ROLLAND SAS

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**EMERGENCY CALL NUMBER**

ORFILA : 01 45 42 59 59

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of substance or mixture**

In conformity with the regulation 1272/2008/EC



**WARNING**

H223 Flammable aerosol

H229 Pressurised container: may burst if heated

**2.2 Label elements**

Symbol(s)



Indication(s) of danger

WARNING

Risk phrase(s)

H223 Flammable aerosol

H229 Pressurised container: may burst if heated.

Safety advices

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 Protect from sunlight.

P412 Do not expose to temperatures exceeding 50°C/122°F.

Contains

Tetrafluoroethane and ethanol

**2.3 Other hazards**

Warning: this product induces a fall in the tissues temperature until - 25°C and can cause tissues necrosis if the instructions for use are not respected. For topical use only: limit the zone of application in the mouth. Avoid spraying onto damaged mucosa (presence of ethanol). Do not breathe the aerosol. Do not spray upside down. Do not spray towards the eyes.

**3. COMPOSITION /INFORMATION ON INGREDIENTS**

**Chemical nature**

**Liquid**

**SUBSTANCE**

CAS No	CE No	Index No	Classification 1272/2008/CE
Ethanol (95%)			
64-17-5	200-578-6	603-002-00-5	Flam. Liq. 2 H225
Norflurane			
811-97-2	212-377-0	-	-

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**4. FIRST AID MEASURES**

*4.1 Description of the first aid measures*

Inhalation	Remove victim to fresh air. Artificial respiration if necessary. In case of collapse, avoid using epinephrine medicines.
Contact with skin	In case of frostbite, treat as thermal burns.
Contact with eyes	Wash immediately with plenty of water keeping the eyelids opened. Seek medical advice.

*4.2 Most important symptoms and effects, both acute and delayed* Not available

*4.3 Indications of possible immediate medical attention and particular treatment needed* Not available

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**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

*Suitable extinguishing media* All are suitable.

**5.2 Special hazards resulting from substance or mixture**

FLAMMABLE.  
Thermal decomposition may liberate toxic and corrosive products: hydrogen fluoride and carbon oxide.

**5.3 Advice to firefighters**

Use self-contained breathing apparatus

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**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Individual precautions, protection equipment and emergency procedures**

*Basic precautions* Wear gloves and suitable goggles. Do not breathe vapours. In a closed room, ventilate or wear a self-contained breathing apparatus.  
*Means of protection* Take away from all ignition sources. Do not smoke.  
Refer to section 8.

**6.2 Environmental precautions**

Do not dispose of in the environment.

**6.3 Methods and material of confinement and cleaning up**

Absorb with an inert material (sand, vermiculite). Wash contaminated area with water.

**6.4 Reference to other sections**

Consult section 8 for personal protection.  
Consult section 13 for disposal conditions.

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**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Keep out of reach of children. Avoid contact with the skin and eyes.  
Do not swallow. Do not breathe vapours.  
Wash carefully hands after handling.  
Wash soiled clothing before reuse.  
Respect the instructions for use.  
Instructions applicable to pressurized containers: prohibit ignition sources and contact with hot surfaces. NO SMOKING. Respect the instructions for use.

**7.2 Conditions for safe storage, including any incompatibilities**

*Conditions of storage* Keep the product in its original pack.  
Instructions applicable to pressurized containers: store in a fresh and well-ventilated area, away from heat, sources of ignition, naked flames, hot surfaces and sources of inflammation.

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**7.3 Special end use(s)**

Protect the full packing from sources of heat to avoid overpressure.  
Store in an area away from heat, at a temperature between + 5°C and + 25°C.  
Product for dental professional use

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters**

**ETHANOL TLV:**

France 5000ppm (9500mg/m<sup>3</sup>)  
Germany 1000ppm (1950mg/m<sup>3</sup>)  
United Kingdom 1000ppm (1950mg/m<sup>3</sup>)  
Spain 1000ppm (1950mg/m<sup>3</sup>)

**8.2 Exposure controls**

*Respiratory protection*

Recommended if insufficient ventilation. Do not breathe vapours.

*Hands protection*

Wear appropriate gloves

*Eyes protection*

Wear protective goggles.

*Skin and body protection*

Wear safety clothing.  
Wash hands after handling.  
Do not eat, drink or smoke while using.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

*Appearance* Liquefied gas  
*Colour* Colourless  
*Odour* Mint  
*pH* Not applicable  
*Boiling point* - 26°C

**10. STABILITY AND REACTIVITY**

**10.1 Réactivity**

Not available

**10.2 Chemical stability**

Chemically stable under normal conditions of use.

**10.3 Possibility of hazardous reactions**

None known

**10.4 Conditions to avoid**

Light, heat.

**10.5 Incompatible materials**

Not available

**10.6 Hazardous decomposition products**

Thermal decomposition may liberate toxic and corrosive products: hydrogen fluoride and carbon oxide.

**11. TOXICOLOGICAL INFORMATIONS**

**11.1 Informations on toxicological effects**

*Swallowing* Experiment on animals: practically not harmful by inhalation.  
LC50/inhalation/4h/rat > 500 000 ppm.

*Vapours inhalation* Like other volatile aliphatic halogenated compounds, the product may cause accumulation of vapors and / or inhalation of large quantities: loss of consciousness and cardiac disorders aggravated by stress and lack of oxygen.

*Splashing in the eyes* A little or no irritating to eyes

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Uneasily biodegradable in water: 3% after 28 days.

**12.2 Persistence and degradability**

Not available

**12.3 Bioaccumulation potential**

Not available

**12.4 Mobility in the soil**

Not available

**12.5 Results of PBT and vPvB assessments**

Not available

**12.6 Other adverse effects**

Not available

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**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Do not dump residue into drain. Chemical products must be eliminated in keeping with applicable regulations.  
Packaging of chemical products must be eliminated in keeping with applicable regulations.

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**14. TRANSPORT INFORMATION**

<i>UN number</i>	UN 1950 AEROSOL 2.1
<i>Shipping name</i>	AEROSOL, FLAMMABLE
<b>Road transport ADR/RID</b>	
<i>Class</i>	2 5F GAZ
<i>Classification code and packing group</i>	2.1
<b>Maritimes transport IDMG</b>	
<i>Class</i>	2 AEROSOL
<i>Packing group</i>	2.1
<b>Air transport IATA/ICAO</b>	
<i>Class</i>	AEROSOL, FLAMMABLE 2
<i>Packing group</i>	2.1

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**15. REGULATORY INFORMATION**

**15.1 Special regulations/legislation for substance or mixture in terms of safety, health and environment**

Regulation (EU) No 487/2013 of the Committee on 8<sup>th</sup> May 2013 amending Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16<sup>th</sup> December 2008 on classification, labeling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC and amending regulation (EC) No 1907/2006.  
Medical device class IIa according to 93/42/EEC directive  
Not available

**15.2 Chemical safety evaluation**

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**16. OTHER INFORMATION**

**Successives modifications:**

Version 1 of 06/1998 : Created

Version 2 of 21/05/2010 : Highly flammable aerosol classification

Version 3 of 09/11/2015 : Changes according to regulation EC 453/2010 - Classification flammable aerosol

Version 4 of 06/11/2015: Changes according to CLP 1272/2008/CE - Classification flammable aerosol

**Abbreviations:**

H223 Flammable aerosol.

H229 Pressurised container: may burst if heated.

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 Protect from sunlight.

P412 Do no expose to temperatures exceeding 50°C/122°F.

**Recommended restrictions on use** CAUTION: Product intended exclusively for professional dental use

**Other informations**

This sheet complements the technical sheets but does not replace them.

The information that is contained herein is based on the state of our knowledge related to the product concerned at the date of issue and is given in good faith. Moreover, the user's attention is drawn to the possible risks incurred by using the product for any other use than that for which it was intended.

With the present, the user is not dispensed to know and to apply the whole regulating text of activity. He should be responsible for all precautions relating to the use of his product.

The whole regulation prescription mentioned is simply to help the user to fulfill the obligations in the use of hazardous product. This enumeration must not be considered as exhaustive. The user is not exempted to secure than those cited concerning the detention and the manipulation of product for which he is alone responsible.