

# EC-Safety data sheet according to 91/155/EEC



Trade name: **WL-dry**

Revised at: 01.03.2007

Print date: 11.05.2007

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## 1. Identification of the substance/preparation and of the company/undertaking

Trade name: **WL-dry**

Intended use: For the accelerated drying and support of the cleaning after the disinfection respectively cleaning of the spray water lines in hand and angle parts.

Effect of the preparation: Drying spray

Manufacturer: ALPRO MEDICAL GMBH  
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## 2. Composition/information on ingredients

Chemical characterization:	Liquefied gases; under pressure.			
<i>Hazardous ingredients</i>	<i>CAS-No.</i>	<i>Weight-%</i>	<i>Code letter</i>	<i>R-phrases*</i>
1,1-Difluorethan	75-37-6	15-30%	F+	12
1,1,1,2-Tetrafluorethan	811-97-2	70-85%	-	-

\*Full text of R-phrases: see under section 16

## 3. Hazards identification

General hints: The pressurized container may burst in case of heating above 50 °C.

## 4. First-aid measures

General information: Note precautions for self-protection.

On inhalation: Move affected person into fresh air and keep still and warm. In case of irritation of the airways, seek medical advice.

On contact with skin: Rinse affected area of skin with lukewarm water. In case of frostbites rinse with plenty of water. Seek medical advice if pain or erythema persist.

On contact with the eyes: Rinse the eyes with water with the eyelids open for a sufficient length of time, then seek ophthalmological advice immediately.

If swallowed: There is no risk of swallowing if used as intended.

Information for the doctor: First aid, decontamination, symptomatic treatment.  
Symptoms: Frostbites by icing in the case of contact with eyes and skin.

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## 5. Fire-fighting measures

Suitable extinguishing media:	Water, foam, dry fire-extinguishing media, carbon dioxide. Fight a larger fire with water spray jet or alcohol resistant foam.
Extinguishing media which must not be used for safety reasons:	Strong water jet.
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	In case of fire may be liberated: Hydrogen fluoride
Special protective equipment for firefighting:	Do not inhale explosion and combustion gases. Use self contained breathing apparatus.
Additional information:	Cool endangered containers with water spray jet. Risk of bursting.

## 6. Accidental release measures

Personal precautions:	Use personal protective clothing. Provide adequate ventilation.
Environmental precautions:	No special measures are necessary.
Methods for cleaning up/taking up:	Leave to vaporize. Provide adequate ventilation.

## 7. Handling and storage

Hints for safe handling:	Protect from heat and direct sunlight. Provide adequate ventilation. Avoid contact with skin and eyes. Do not use spray can upside down.
Hints for protection against fire and explosion:	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. According to adequate investigations the product is not flammable if used as intended.
Further information:	Not necessary
Requirements for storage rooms and vessels:	The official regulations regarding the storage of pressurized containers have to be considered. Keep in a cool, well-ventilated place.
Hints on storage assembly:	Not necessary
Further information on storage conditions:	Recommended storage temperature: 5 °C – 25 °C
Storage class:	LGK 2B

## 8. Exposure limitation and personal protective equipment

**Constituents with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:**

Maximum occupational exposure concentration; see TRGS 900 (German regulation)

1,1,1,2-Tetrafluoroethan

CAS-No.: 811-97-2

Air limit value: 1000 ml/m<sup>3</sup>; 4200 mg/m<sup>3</sup>

Overflow factors for short-term values:

Peak limitation-category 8(II)

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## General health and safety measures:

Do not eat, drink, smoke while working.  
Wash hands before breaks and on finishing work.  
Preventive skin protection using barrier ointment.  
Keep away of foods and drinks.  
Avoid contact with eyes, skin and clothing.  
Avoid inhalation of aerosols and vapours.

## Personal protection equipment:

Respiratory protection: Not necessary in case of sufficient room ventilation.  
Hand protection: Not necessary.  
Eye protection: Tightly sealed goggles are recommended.  
Protective clothing: Not necessary.

## 9. Physical and chemical properties

Form:	liquefied gases; under pressure	
Colour:	colourless	
Odour:	slightly ethereal	
pH-value:	non-applicable	(20°C)
Boiling point/Boiling range:	non-applicable because aerosol dispenser	
Melting point/Melting range:	non-applicable because aerosol dispenser	
Flash point (DIN, TRbF):	non-applicable because aerosol dispenser	
Flammability (gaseous):	The preparation contains highly flammable constituents, which may represent a risk of ignition in case of adverse conditions.	
Explosive properties:	The product is not explosive. At usage the formation of vapour/air mixtures is possible which have explosive/highly flammable properties.	
Ignition temperature:	not determined	
Oxidizing properties:	none	
Vapour pressure:	6 bar	at 20°C
Density:	1,1 g/cm <sup>3</sup>	at 20°C
Bulk density:	not determinable	at ...°C
Solubility in water:	almost insoluble	
Partition coefficient:	not necessary	(n-octanol/water)
Viscosity (sort):	not necessary	at ...°C
Electrical conductivity (undiluted):	not necessary	at ...°C
Refractive index nD:	not determinable	at ...°C
Optical rotation αD:	not determinable	

## 10. Stability and reactivity

Conditions to avoid: No decomposition if used as prescribed.  
Materials to avoid: No hazardous reactions if used as prescribed.

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Hazardous decomposition products: Hydrogen fluoride (HF); In case of adverse conditions the formation of HF is possible when the product is combusted.

## 11. Toxicological information

Acute toxicity: No acute toxicity known.

Primary irritant effect on the skin: Gas: No primary irritant effect on the skin known.

Primary irritant effect on the eye: Gas: Slightly irritant.

Mutagenic potential: No mutagenic potential known.

Sensitization: No sensitizing effects known.

The product was classified on the basis of the calculation procedure of the preparation directive 1999/45/EC.

Based on manufacturer data of the main components the acute toxicity, the skin irritation, the mucous membrane irritation and the mutagenic potential of the preparation were evaluated. However, some data are not complete regarding particular main components. Nevertheless according to the experience of the manufacturer there are no other hazards expected than those which are already mentioned on the label.

## 12. Ecological information

Ecotoxicity: The product poses no significant threat for the aquatic environment: Very slightly toxicity for water organisms, intense volatility, no bioaccumulation.

Persistence and degradation: The product is persistent in air.

Other adverse effects: No effects known regarding the stratosphere-ozone.

Further information: Not necessary.

## 13. Disposal considerations

### Disposal of the product:

In the EC member states there are no standardized regulations for the disposal of chemicals. In Germany the law of the cycle of economy and waste (KrW/AbfG) prescribes the principle of utilization and therefore a distinction must be made between "waste for utilization" and "waste for removal". Furthermore special cases – particularly in case of delivery – are also regulated by the federal states. Please contact the corresponding office (authority or waste disposal company) who will inform you about the utilization or removal.

Waste code no.\*: 16 05 04

### Disposal of uncleaned as well as completely emptied packings:

Disposal according to official regulations. Contaminated packings are to be treated like the substance.

Waste code no.\*: 15 01 10

### Further information:

If there is no official regulation, non-contaminated packings can be treated like domestic waste or can be recycled.

\*Waste code no.: Waste incurred is classified following the code of the European waste register according to kind of waste and branch.

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## 14. Transport information

### Land transport ADR/RID and GGVSE

UN-No.: 1950

Class: 2.1

Packing Group: -

Proper Shipping Name:

AEROSOLS

### Inland waterway craft ADN/ADNR

Not classified.

### Marine transport IMDG/GGVSee

UN-No.: 1950

Class: 2.1

Packing Group: -

EmS-No.: F-D; S-U

Proper Shipping Name:

AEROSOLS

### Air transport ICAO-TI/IATA-DGR

UN-/ID-No.: 1950

Class: 2.1

Packing Group: -

Proper Shipping Name:

AEROSOLS, flammable

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## 15. Regulatory information

### Labelling

Code letter: -

Hazard designation: -

contains: -

R-phrases: -

S-phrases: S23  
S51

Do not breathe aerosol.

Use only in well-ventilated areas.

Special labelling of certain preparations (preparation directive 1999/45/EC annex V):

The S23 and S51 must be mentioned (see above)

Special labelling (preparation directive 94/1/EC for adaption of the aerosol directive 75/324/EEC):

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 out of the reach of children. 15 - 30 % by mass of the contents are flammable.

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## National regulations (Germany)

Restrictions of occupation:	None
Störfallverordnung:	-
Classification according to VbF:	Not subject to the VbF
Technische Anleitung Luft:	-
Water hazard class:	WGK 1 (slightly water hazardous); self-classification

## 16. Other information

**Full text of R-phrases appearing in section 2:**  
(This is not the classification of the product WL-dry!)

R12 Extremely flammable.

### Further information:

This information is based on our present knowledge and describes the safety measures which are to be taken for this product. However, this shall not constitute a guarantee for any product features.

### Marking of changes:

There are no changes so far.