

# Material safety data sheet

Product

**FRIONETT 2**

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Version : 2

Date : 30/07/2001

Supersedes : 08/12/2000

## 01 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : FRIONETT 2  
SUPPLIER :  
Name : DEHON SERVICE  
Address : 26, Avenue du Petit Parc  
94683 VINCENNES cedex  
Telephone number : 01 49 83 53 00  
Telefax number : 01 48 81 24 40  
Department to contact : DEHON cleaning product laboratory  
EMERGENCY TELEPHONE NUMBER : ORFILA (France) : 33 1 45 42 59 59

## 02 COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION :  
Chemical nature : Mixture of surfactants and alkaline agents  
Components contributing to the hazard : 2-butoxyethanol (CAS : 111-76-2 ; EC classification : Xn; R20/21/22 - Xi; R37) : 5-6 %  
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS : 68424-85-1 ; EC classification : Xn; R20/21/22) : ~ 1.5 %

## 03 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :  
Adverse human health effects : Irritating to eyes and skin  
Classification of the product : - IRRITANT

## 04 FIRST AID MEASURES

Inhalation : If the person feels unwell :  
Move the affected person to the fresh air  
Call a doctor  
Skin contact : Rinse with plenty of water  
Eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum)  
If irritation persists, consult an eye specialist  
Ingestion : Rinse mouth out with water  
If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink  
Never attempt to induce vomiting  
Call a doctor immediately

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## 05 FIRE FIGHTING MEASURES

Suitable extinguishing media : Water  
Specific hazards : Aqueous liquid. Does not present any particular risk in the event of a fire  
Specific fire fighting methods : Do not dispose of fire-fighting water in the environment

## 06 ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid contact with skin and eyes  
Environmental precautions : Contain the spilled material by bunding  
Do not allow product to spread into the environment  
Methods for cleaning up :  
- Recovery : Collect up the product and place it in a spare container:  
- suitably labelled  
Keep recovered product for subsequent disposal  
- Neutralization : Absorb non-recoverable liquid with:  
- dry sand.  
- saw-dust or an inert absorbent material  
Do not discharge into drains or waterways without neutralizing  
- Cleaning/decontamination : After neutralizing, spray with large amounts of water

## 07 HANDLING AND STORAGE

### HANDLING

Technical measures : Does not require any specific or particular measures

### STORAGE

Storage conditions :

- Recommended : Store :  
- protected from frost  
Keep the container hermetically sealed

Incompatible products :

Strong acids  
Strong oxidizing agents

Packaging materials :

- Recommended : Plastic materials

## 08 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits :

- France : 2-butoxyethanol : VME = 120 mg/m<sup>3</sup> ( 25 ppm )  
- USA (ACGIH) : 2-butoxyethanol : TLV (TWA) = 121 mg/m<sup>3</sup> ( 25 ppm )

Personal protective equipment :

- Respiratory protection : If the ventilation is suitable, it is not essential to wear respiratory equipment  
- Hand protection : Protective gloves made of rubber  
- Eye protection : Safety spectacles with side shields

Hygiene measures : Do not eat and do not drink during use  
Always wash your hands immediately after handling this product, and once again before leaving the workplace.

## 09 PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid  
Colour : yellow

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Odour :	weak
Specific temperatures :	
- Boiling :	100°C.
Flammability characteristics :	
- Flash point :	Not applicable
- Auto-ignition temperature :	Not applicable
Oxidizing properties :	Non oxidizing material according to EC criteria
Explosive limits in air :	Not applicable.
Vapour pressure :	Not determined
Vapour density (air = 1) :	< 1
Relative density (water = 1) :	1.023
Solubility :	
- in water :	Complete

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## 10 STABILITY AND REACTIVITY

Stability :	Stable at room temperature
Hazardous reactions :	
- Conditions to avoid :	No dangerous reactions known under normal conditions of use Refer to the technical directions
- Materials to avoid :	- strong oxidizing agents - strong acids
- Hazardous decomposition products :	Carbon oxydes (CO, CO2) Nitrogen

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## 11 TOXICOLOGICAL INFORMATION

Acute toxicity :	2-butoxyethanol : LC 50 inhalation/4 h/rat: 450-490 ppm LD 50 oral (Mouse): 1230 mg/kg. LD 50 oral (Rabbit): 320-370 mg/kg LD 50 oral (Rat): 1480 mg/kg.
Local effects :	Irritating to the skin Irritating to the eyes
Sensitization :	No sensitizing effect is known

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## 12 ECOLOGICAL INFORMATION

No data available	
Contains :	
Surfactants	
Do not allow the product, as is, to spread into the environment	
Biodegradability :	Contained surfactants are more than 90 % biodegradable
ECOTOXICITY :	
Effects on the aquatic environment :	No information available

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## 13 DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT :	
Prohibition :	Do not allow the product to be released into the environment Discharging into rivers and drains is forbidden
Destruction/Disposal :	Conform to current legislation, regulations and orders

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## CONTAMINATED PACKAGING :

Destruction/Disposal :

Dispose of at an licensed site

NOTE :

The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal

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## 14 TRANSPORT INFORMATION

### INTERNATIONAL REGULATIONS :

RID/ADR/IMDG/IATA :

Not restricted

NOTE :

The above regulatory prescriptions are those valid on the date of publication of this sheet

However, given the possible evolution of transport regulations for hazardous materials, in case the present sheet is dating back to more than 12 months ago, it would be advisable to check their validity with your commercial agency

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## 15 REGULATORY INFORMATION

### EC LABELLING :

- Symbols and danger information :

Mandatory labelling (self-classification) of hazardous preparations : applicable

- IRRITANT (Xi)

(voluntarily labelling)

- R phrases :

R 36/38 : Irritating to eyes and skin

- S phrases :

S 2: Keep out of reach of children.

S 37 : Wear suitable gloves

S 46: If swallowed seek medical advice immediately and show this container or label where possible.

### FURTHER REGULATIONS :

NOTE :

The regulatory information given in this part only indicate the principal regulations specifically applicable to the product described in the Safety Data Sheet.

The user's attention is drawn to the possible existence of additional provisions which complete these regulations.

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## 16 OTHER INFORMATION

Recommended uses :

External cleaning product for refrigerating plants / air conditioning / heating

See technical instructions

\* Update :

This sheet was updated (refer to the date at the top of this page)

All chapters have been modified since the previous version

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This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the product, at the time of publication. It is given in good faith.

Besides, the attention of the user is drawn to the possible risks incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.

The aim of all the mandatory regulations mentionned is just to help the user to fulfil his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

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End of document.

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