

Material safety data sheet

Product

FRIONETT 1

Page :1/6

Version : 3

Date : 06/09/2002

Supersedes : 25/07/2001

01 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : FRIONETT 1
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 : Blend of Surfactants, Phosphoric acid, Ammonium bifluoride and 2-butoxyethanol
Components contributing to the hazard : Ammonium bifluoride (CAS : 1341-49-7;
EC classification : T; R25 - C; R34) : 1-5 %
Phosphoric acid (CAS : 7664-38-2;
EC classification : C; R 34) : 15-20 %
2-butoxyethanol (CAS : 111-76-2;
EC classification : Xn; R20/21/22 - Xi; R37) : 1-5 %

03 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :
Adverse human health effects : Harmful if swallowed
Corrosive. Causes burns
Environmental effects : If the product is not neutralised, it may have harmful effects on the aquatic environment
Classification of the product : According to european regulations, this product is classified as :
- CORROSIVE
- HARMFUL

04 FIRST AID MEASURES

Inhalation : Move the affected person away from the contaminated area and into the fresh air
If irritation persists, consult a doctor
Skin contact : Immediately, there and then, wash the victim with plenty of water, while removing contaminated clothing
If skin burns appear, call a doctor immediately

Material safety data sheet

Product

FRIONETT 1

Page :2/6

Version : 3

Date : 06/09/2002

Supersedes : 25/07/2001

Eye contact :	Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum)
Ingestion :	Always consult an eye specialist, even if there are no immediate symptoms Rinse mouth out with water Never attempt to induce vomiting Call a doctor immediately If possible show him this sheet. Failing this, show him the packaging or label

05 FIRE FIGHTING MEASURES

Suitable extinguishing media :	Powders Foam Carbon dioxide (CO2)
Not suitable extinguishing media :	None to our knowledge. If there is a fire close by, use suitable extinguishing agents
Specific hazards :	Corrosive vapours are released Toxic gases are released
Specific fire fighting methods :	Contain the extinguishing fluids by bunding
Protection of fire-fighters :	Complete protective clothing Self-contained breathing apparatus

06 ACCIDENTAL RELEASE MEASURES

Personal precautions :	Avoid contact with skin and eyes For further information refer to section 8 : "Exposure-controls/personal protection"
Environmental precautions :	Contain the spilled material by bunding Avoid direct discharge into drains
Methods for cleaning up :	
- Neutralization :	Neutralize with : - calcium oxide or sodium carbonate Absorb spillage with: - inert absorbent material.
- Cleaning/decontamination :	Wash contaminated area with large amounts of water
- Disposal :	Do not discharge into drains Dispose of contaminated materials in accordance with current regulations

07 HANDLING AND STORAGE

HANDLING

Technical measures :	Does not require any specific or particular measures
Precautions :	Avoid any direct contact with the product Do not breathe vapour
Safe handling advice :	Ensure that there is a suitable ventilation system

STORAGE

Technical measures :	The floor of the depot should be impermeable and designed to form a tight basin
Storage conditions :	
- Recommended :	Store : - in a cool, well-ventilated area - away from direct sunlight - away from any source of ignition Keep the container hermetically sealed
Incompatible products :	Alkalis and caustic products Acids

Material safety data sheet

Product

FRIONETT 1

Page :3/6

Version : 3

Date : 06/09/2002

Supersedes : 25/07/2001

Packaging materials :	Metals
- Recommended :	Strong oxidizing agents
- Not suitable :	Plastic materials
	Ordinary steel
	Non ferrous metals (Al, Cu, Zn, Sn) and their alloys.
	Glass

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures :	Ensure good ventilation of the work station
Occupational exposure limits :	
- France :	Phosphoric acid : VLE = 3 mg/m ³ . Phosphoric acid: VME = 1 mg/m ³ 2-butoxyethanol : VME = 120 mg/m ³ (25 ppm)
Personal protective equipment :	
- Respiratory protection :	In the event of insufficient ventilation: Self-contained breathing apparatus.
- Hand protection :	Neoprene protective gloves. Protective gloves made of PVC.
- Eye protection :	Goggles + face shield
- Skin and body protection :	Acid-resistant clothing Acid-resistant boots
Collective emergency equipments :	Eye fountain Safety shower
Hygiene measures :	Always wash your hands immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke during use

09 PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Liquid
Colour :	colourless
Odour :	characteristic
pH :	< 1 (product as is)
Specific temperatures :	
- Boiling :	100 °C
Flammability characteristics :	
- Flash point :	Not applicable
Relative density (water = 1) :	1.10 - 1.25
Solubility :	
- in water :	Miscible in all proportions

10 STABILITY AND REACTIVITY

Stability :	Stable at room temperature
Hazardous reactions :	
- Materials to avoid :	- acids - alkalis and caustic products - metals - strong oxidizing agents
- Hazardous decomposition products :	On combustion or on thermal decomposition (pyrolysis) releases : Hydrogen fluoride

Material safety data sheet

Product

FRIONETT 1

Page :4/6

Version : 3

Date : 06/09/2002

Supersedes : 25/07/2001

Further information : Carbon oxides (CO, CO₂)
Nitrogen oxides
Phosphorus oxides
Attacks many metals releasing highly flammable gas (hydrogen) which generates fire or explosion hazards.

11 TOXICOLOGICAL INFORMATION

Acute toxicity : 2-butoxyethanol : LC 50 inh. (rat) / 4 h / : 450 ppm
Harmful if swallowed
Local effects : 2-butoxyethanol : LD 50 oral (rat) : 1480 mg/kg
May be irritating to the respiratory system
Corrosive
Causes burns
Causes serious eye burns

12 ECOLOGICAL INFORMATION

Contains :
surfactants
Do not allow the product, as is, to spread into the environment
Biodegradability : Contained surfactants are more than 90 % biodegradable

13 DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT :
Destruction/Disposal : Neutralize prior to disposal (pH between 5.5 and 8.5)
Dilute the solutions with water (> 100 times)
Conform to current legislation, regulations and orders
CONTAMINATED PACKAGING :
Decontamination/cleaning : Rinse with water
Destruction/Disposal : Recycle following cleaning
NOTE : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal

14 TRANSPORT INFORMATION (*)

INTERNATIONAL REGULATIONS :
Land :
- Rail/road (RID/ADR) : UN number : 3264
Class : 8
Item number : 17 °b)
Labelling : 8
Hazard identification number : 80
Description : Liquide inorganique corrosif, acide, n.s.a (Acide phosphorique, Bifluorure d'ammonium).
Sea (IMO/IMDG) : UN Number : 3264
Class : 8
Labelling : 8
Packaging group : II
Description : Liquide inorganique corrosif, acide, n.s.a (Acide phosphorique, Bifluorure d'ammonium)

Material safety data sheet

Product

FRIONETT 1

Page :5/6

Version : 3

Date : 06/09/2002

Supersedes : 25/07/2001

Air (ICAO-IATA) :

UN number : 3264

Class : 8

Labelling : 8

Packing group : II

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

15 REGULATORY INFORMATION

EC LABELLING :

Identification of the hazardous product :

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

Contains :

Ammonium bifluoride

Phosphoric acid

- Symbols and danger information :

- CORROSIVE (C)

- R phrases :

R 34 : Causes burns

R 22 : Harmful if swallowed

- S phrases :

S 1/2 : Keep locked up and out of reach of children

S 13 : Keep away from food, drink and animal feeding stuffs

S 26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 36/37/39 : Wear suitable protective clothing, gloves and eye/face protection

S 45 : In case of accident or if you feel unwell, seek medical advice immediately (show the 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.

16 OTHER INFORMATION

Recommended uses :

Degreasing cleaning product

See technical instructions

Product for industrial use only

* Update :

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

The amended headings are indicated by an asterisk (*)

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 mentioned 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.

Material safety data sheet

Product

FRIONETT 1

Page :6/6

Version : 3

Date : 06/09/2002

Supersedes : 25/07/2001

End of document.

Number of pages : 6