



MATERIAL SAFETY DATA SHEET

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Version : 1

Date : 10/2/2009

Supersedes : 0/0/0

FRIONETT ACTIV' Mousse

PROVISOIRE

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : FRIONETT ACTIV' Mousse
Recommended uses : Active foam for small and medium refrigeration and air-conditioning systems cleaning

SUPPLIER :
Name : DEHON SERVICE
Address : 26, Avenue du Petit Parc
94683 VINCENNES cedex

Telephone number : +33 (0)1 43 98 75 00
Telefax number : +33(0)1 43 98 21 51
e-mail : ContactFDS@dehon.com
Department to contact : Department Material Safety Data Sheets - TEL : +33(0)1 49 83 53 00
EMERGENCY TELEPHONE NUMBER : EMERGENCY TELEPHONE NUMBER (24h/24) : +44 (0)208 762 8323
Anti-poison Center : INRS/ORFILA (France) : +33 (0) 1 45 42 59 59

2 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :
Adverse human health effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

Physical and chemical hazards :
- Fire or explosion : Extremely flammable pressurized liquid
May form flammable/explosive vapour-air mixtures

Classification of the product :
According to european regulations, this product is classified as :
- EXTREMELY FLAMMABLE

3 COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION :
Components contributing to the hazard :

Substance name	Contents	CAS No	EC No	Annex No	Classification
n-Butane	: 2.5 to 10 %	106-97-8	203-448-7	601-004-00-0	F+; R12
Propane	: < 2.5 %	74-98-6	200-827-9	601-003-00-5	F+; R12
Isobutane	: < 2.5 %	75-28-5	200-857-2	601-004-00-0	F+; R12

4 FIRST AID MEASURES



Inhalation : Move the affected person away from the contaminated area and into the fresh air
If the person feels unwell :
Call a doctor immediately

Skin contact : Immediately remove contaminated clothing or footwear
Wash immediately with plenty of soap and water
If case of redness or irritation, call a doctor

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 swallowed, seek medical advice immediately and show this container or label.

Protection of first-aiders : Do not enter without an appropriate protective equipment
- self-contained breathing apparatus
- protective clothing

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5 FIRE-FIGHTING MEASURES

Suitable extinguishing media :	Carbon dioxide (CO ₂) Specific powders Foam
Specific hazards :	Heating will cause a rise in pressure with a risk of bursting.
Specific fire fighting methods :	Cool down the containers exposed to heat with a water spray Do not dispose of fire-fighting water in the environment
Protection of fire-fighters :	Self-contained breathing apparatus Impermeable protective equipment

6 ACCIDENTAL RELEASE MEASURES

Personal precautions :	Evacuate the danger area. Only qualified personnel equipped with suitable protective equipment may intervene Remove all sources of ignition Do not breathe vapours
Environmental precautions :	Contain the spilled material by bunding Do not discharge into drains or rivers
Clean up methods :	
- Recovery :	Absorb spillage with: - inert absorbent material. - earth or sand
- Cleaning/decontamination :	Wash contaminated area with large amounts of water
- Disposal :	Dispose of contaminated materials in accordance with current regulations

7 HANDLING AND STORAGE

HANDLING

Technical measures :	Ventilation Material and equipment suitable for use under explosive conditions Use non-sparking tools
Precautions :	Avoid the build-up of electrostatic charge Smoking is forbidden Work in a well-ventilated area

STORAGE

Safe handling advice :	Do not spray on a naked flame or any incandescent material
Storage conditions :	
- Recommended :	Store : - the container tightly closed - in a cool, well-ventilated area - away from any source of ignition - away from any source of heat - away from direct sunlight - at temperature not exceeding 50 °C
Incompatible products :	Strong bases Strong oxidizing agents Oxidizing materials
Packaging materials :	
- Recommended :	Original packaging



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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures :	Ensure good ventilation of the work station
Occupational Exposure Limits :	
- France :	N-Butane : VME = 1900 mg/m ³ (800 ppm)
- Germany :	Isobutane : MAK Value = 2400 mg/m ³ (1000 ppm) N-Butane : MAK Value = 2400 mg/m ³ (1000 ppm) Propane : MAK Value = 1800 mg/m ³ (1000 ppm)
- USA (ACGIH) :	N-Butane : TLV(TWA) = 800 ppm Isobutane : TLV(TWA) = 1000 ppm Propane : TLV(TWA) = 1000 ppm
Personal protection :	
- Respiratory protection :	In the event of insufficient ventilation: Mask with AX canister In a confined area : Self-contained breathing apparatus
- Hand protection :	Nitrile-rubber protective gloves
- Eye protection :	Sealed safety goggles
- Skin protection :	Majority cotton antistatic clothing
Industrial hygiene :	Do not eat, drink or smoke during use Always wash hands after handling the product

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Liquid (Aerosol)
Colour :	Colourless
Odour :	green freshness
pH value :	Not applicable
Boiling point :	<= 35 °C
Flammability characteristics :	
Flash point :	< 0 °C
Relative density, liquid (water=1) :	< 1
Solubility :	
-in water :	Insoluble

10 STABILITY AND REACTIVITY

Stability :	Stable at ambient temperature and under normal conditions of use
Hazardous reactions :	
Conditions to avoid :	May explode or ignite : - on heating
Materials to avoid :	- strong bases - strong oxidizing agents
Hazardous decomposition products :	On thermal decomposition (pyrolysis), releases : Carbon oxides (CO, CO ₂)

11 TOXICOLOGICAL INFORMATION

Acute toxicity :	No specific data N-Butane : LC 50 inhalation/ 4 h/rat : 658 mg/l LC 50 inhalation (Mouse) / 2 h : 680 mg/l (Published data)
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11 TOXICOLOGICAL INFORMATION (continued)

Local effects : May cause slight temporary irritation to ocular mucous membranes

12 ECOLOGICAL INFORMATION

No data : Do not allow the product, as is, to spread into the environment

MOBILITY :

Persistence :

N-Butane :
Half-life in water : <2.6 d
Half-life in air : 3.2 d
Isobutane :
Half-life in air : 6.9 d

BIOACCUMULATION:

Octanol/water partition coefficient : N-Butane / Isobutane :
Not potentially bioaccumulable.

13 DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT :

Destruction/Disposal : Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING :

Destruction/Disposal : Empty the packaging completely prior to 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

14 TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS :

UN No. 1950 - AEROSOLS

Land transport :

- Rail/road (RID/ADR) : Class : 2
Classification code : 5F
Packaging group : -
Labelling : 2.1
Hazard identification number : -
Limited quantities : LQ2



Sea transport :

Class : 2.1
Packaging group : -
Labelling : 2.1
FS : F-D, S-U

Air transport :

Class : 2.1
Packing group : -
Labelling : 2.1

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 :

Symbol(s) :



R Phrase(s) :

S Phrase(s) :

Further Phrases :

FURTHER REGULATIONS :

REGULATION EC No 648/2004 :

Directive 98/8/EC :

France :

NOTE :

F+ : Extremely flammable

R12 : Extremely flammable.

S23 : Do not breathe spray.

S46 : If swallowed seek medical advice immediately and show this container or label.

S51 : Use only in well-ventilated areas

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 out of the reach of children.

Contains :

- Anionic surfactants : < 5 %

- Non-ionic surfactants : < 5 %

- aliphatic hydrocarbons : 5 % or over but less than 15 %

- Disinfectants

- Perfumes

Contains :

Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides (CAS 68391-01-5) : 1.98 g/l (TP02)

ICPE Classification : 1414+1431+1432

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

The cited basic Community texts are being updated and transcribed in national law.

Refer to all applicable national, international and local regulations or provisions.

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

16 OTHER INFORMATION

Further information:

Product for industrial use only

For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region

This safety data sheet has been written in conformity with the annex II of the regulation (EC) 1907/2006 (REACH).

Text of R-Phrases in § 3

R12 : Extremely flammable.

* Update :

Modifications 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.

DEHON SERVICE

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In case of emergency : +44 (0)208 762 8323

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