

**FRIONETT POWER**
**100450000**
**SECTION 1 Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**
**Trade name** : FRIONETT POWER

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
**1.2.1 Relevant identified uses** : Concentrated all-purpose cleaner

**1.3. Details of the supplier of the safety data sheet**

 : DEHON SERVICE  
 26 Avenue du Petit Parc  
 94683 VINCENNES Cedex France  
 Tel : +33 (0) 1 43 98 75 00  
 Fax : +33 (0) 1 43 98 21 51

**e-mail** : ContactFDS@climalife.dehon.com

**1.4 Emergency telephone number** : EMERGENCY TELEPHONE NUMBER (24h/24) : + 33 (0) 1 72 11 00 03  
 Anti-poison Center : INRS/ORFILA (France) : +33 (0) 1 45 42 59 59  
 Anti-poison Centre (Belgium) : +32 70 245 245  
 Anti-poison Centre (Netherlands) : +31 30 274 8888  
 Anti-poison Centre (Spain) : +34 91 562 04 20  
 Anti-poison Centre (United Kingdom) : +44 870 600 6266  
 Poisons Information Centre (Hungary) : +36 80 201 199

**SECTION 2 Hazards identification**
**2.1. Classification of the substance or mixture**
**2.1.1. Regulation (EC) No 1272/2008 (CLP)**
**Physical hazards** : Flammable liquids - Category 3 ; H226

**Health hazards** : Acute toxicity, Oral - Category 4 (Acute Tox. 4) - H302  
 Acute toxicity, Inhalation - Category 4 - (Acute Tox. 4) - H332  
 Skin irritation - Category 2 (Skin Irrit. 2) - H315  
 Serious eye damage - Category 1 (Eye Dam. 1) - H318

**2.1.2 Directive EEC/67/548 or 1999/45/CE** : R10  
 Xn; R20/21/22  
 Xi; R36/38

**2.2. Label elements**
**2.2.1 Labelling EC 1272/2008 (CLP)**
**Contains** : 2-butoxyethanol  
 Alkyl polyglycol ether C8-10 with ethylene oxide

**Hazard pictograms**

**Signal words** : Danger

**Hazard statements** : H226 : Flammable liquid and vapour  
 H302 : Harmful if swallowed  
 H332 : Harmful if inhaled  
 H315 : Causes skin irritation  
 H318 : Causes serious eye damage

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**SECTION 2 Hazards identification (continued)**
**Precautionary statements :**

- **Prevention** : P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 : Wear protective gloves/protective clothing/eye protection/face protection.
- **Response** : P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 : Immediately call a POISON CENTER or doctor/physician
- **Disposal considerations** : P501 : Dispose of contents / container to an authorized center in accordance with national regulation
- 2.3. Other hazards** : Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with.

**SECTION 3 Composition/information on ingredients**
**3.1./3.2. Substance / Preparation** : Preparation

**Hazardous constituents :**

Substance name	Contents	CAS No	EC No	Index No	Ref REACH	Classification
2-butoxyethanol	25 to 50 %	111-76-2	203-905-0	603-014-00-0	01-2119475108-36	Xn; R20/21/22 Xi; R36/38 ----- Acute Tox. 4 (Dermal);H312 Acute Tox. 4 (Inhalation);H332 Acute Tox. 4 (Oral);H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315
Alkyl polyglycol ether C8-10 with ethylene oxide	10 to 25 %	71060-57-6	-----	-----	-----	Xi; R36 ----- Eye Irrit. 2;H319
Propan-2-ol	2.5 to 10 %	67-63-0	200-661-7	603-117-00-0	01-2119457558-25	F; R11 R67 Xi; R36 ----- Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE3; H336

**SECTION 4 First aid measures**
**4.1. Description of first aid measures**

- Inhalation** : In the event of exposure to high concentrations : Move the affected person to the fresh air  
  
Make the affected person rest and keep at warm  
Give artificial respiration if necessary  
Seek medical advice.
- Skin contact** : Remove all contaminated clothing and footwear  
Wash with soapy water  
If case of redness or irritation, call a doctor  
Do not use : solvent
- Eye contact** : Immediately rinse with water for a prolonged period while holding the eyelids wide open  
If irritation persists, consult an eye specialist
- Ingestion** : Do not give anything to drink. Do not induce vomiting.  
Make the person rest  
Seek medical attention immediately.  
If possible show him this sheet. Failing this, show him the packaging or label

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## SECTION 4 First aid measures (continued)

- 4.2. Most important symptoms and effects, both acute and delayed : No information available
- 4.3. Indication of any immediate medical attention and special treatment needed : No information available

## SECTION 5 Fire-fighting measures

- 5.1. Extinguishing media
- Suitable extinguishing media : Water spray /  
Water fog. /  
Carbon dioxide (CO2)  
Alcohol-resistant foam  
Powders
- Unsuitable extinguishing media : Strong water jet
- 5.2. Special hazards arising from the substance or mixture
- Specific hazards : Under fire conditions, hazardous fumes will be present.  
Vapours are denser than air. May accumulate in low areas e.g. close to the ground.
- 5.3. Advice for firefighters
- Specific fire fighting methods : Cool down the containers exposed to heat with a water spray  
Contain the extinguishing fluids by bunding
- Protection of fire-fighters : Complete protective clothing  
Self-contained breathing apparatus

## SECTION 6 Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures : Avoid contact with skin and eyes  
Remove all sources of ignition  
Do not breathe vapours  
In case of important spillage :  
Mark out the contaminated area with signs and prevent access to unauthorized personnel  
Only qualified personnel equipped with suitable protective equipment may intervene
- 6.2. Environmental precautions : Do not allow product to spread into the environment  
Do not discharge into drains or rivers
- 6.3. Methods and material for containment and cleaning up
- Neutralization : Carefully neutralize spilled liquid, using : acid  
Absorb with :  
- earth or sand  
- inert absorbent material.
- Cleaning/decontamination : Wash the floor with plenty of water
- Disposal : Dispose of contaminated materials in accordance with current regulations.
- 6.4 Reference to other sections : For further information refer to section 8 "Exposure controls/personal protection"

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## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

#### Technical measures

: Ensure good ventilation of the work station  
Vapour extraction at source  
Earth the equipment  
Use non-sparking tools

#### Precautions

: No flames, No sparks. Eliminate all sources of ignition  
Avoid the build-up of electrostatic charge  
Smoking is forbidden  
Do not breathe vapour  
Avoid contact with skin and eyes

#### Industrial hygiene

: Always wash hands after handling the product  
Do not eat, drink or smoke during use

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures

: The floor of the depot should be impermeable and designed to form a tight basin

#### Storage conditions

##### - Recommended

: Store :  
- the container tightly closed  
- in a dry, well-ventilated area  
- away from any source of heat  
- away from direct sunlight  
- away from any source of ignition

#### Packaging materials

##### - Recommended

: Original packaging

### 7.3. Specific end use(s)

: No data

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational Exposure Limits

: 2-butoxyethanol : USA (OSHA) : PEL - TWA (8h; mg/m<sup>3</sup>) : 240  
2-butoxyethanol : USA (OSHA) : PEL - TWA (8h; ppm) : 50  
2-butoxyethanol : European Union : VME (8h; mg/m<sup>3</sup>) : 98  
2-butoxyethanol : European Union : VME (8h; ppm) : 20  
2-butoxyethanol : European Union : VLE (15min; mg/m<sup>3</sup>) : 246  
2-butoxyethanol : European Union : VLE (15min; ppm) : 50  
Propan-2-ol : France : LEP - VLE (15min; mg/m<sup>3</sup>) : 980  
Propan-2-ol : France : LEP - VLE (15min; ppm) : 400  
Propan-2-ol : Germany : MAK - TWA (8h; mg/m<sup>3</sup>) : 500  
Propan-2-ol : Germany : MAK - TWA (8h; ppm) : 200  
Propan-2-ol : Germany : MAK - STEL (15min; mg/m<sup>3</sup>) : 1000  
Propan-2-ol : Germany : MAK - STEL (15min; ppm) : 400  
Propan-2-ol : Hungary : AK - TWA (8h; mg/m<sup>3</sup>) : 500  
Propan-2-ol : Hungary : AK - STEL (15min; mg/m<sup>3</sup>) : 2000  
Propan-2-ol : Belgium : GWBB - TWA (8h; mg/m<sup>3</sup>) : 500  
Propan-2-ol : Belgium : GWBB - TWA (8h; ppm) : 200  
Propan-2-ol : Belgium : GWBB - STEL (15min; mg/m<sup>3</sup>) : 1000  
Propan-2-ol : Belgium : GWBB - STEL (15min; ppm) : 400  
Propan-2-ol : USA (NIOSH) : REL - TWA (8h; mg/m<sup>3</sup>) : 980  
Propan-2-ol : USA (NIOSH) : REL - TWA (8h; ppm) : 400  
Propan-2-ol : USA (NIOSH) : REL - STEL (15min; mg/m<sup>3</sup>) : 1225  
Propan-2-ol : USA (NIOSH) : REL - STEL (15min; ppm) : 500  
Propan-2-ol : Switzerland : LEP - VME (8h; mg/m<sup>3</sup>) : 500  
Propan-2-ol : Switzerland : LEP - VME (8h; ppm) : 200  
Propan-2-ol : Switzerland : LEP - VLE (15min; mg/m<sup>3</sup>) : 1000  
Propan-2-ol : Switzerland : LEP - VLE (15min; ppm) : 400

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## SECTION 8 Exposure controls/personal protection (continued)

### 8.2. Exposure controls

- Personal protection :** : Wear protective gloves/protective clothing/eye protection/face protection.
- Respiratory protection :** : In the event of insufficient ventilation: Mask with A1 canister
- Hand protection :** : Butyl-rubber protective gloves
- Eye protection :** : Sealed safety goggles
- Skin protection :** : Wear suitable protective clothing.  
If there is a risk of liquid being splashed :
- Collective emergency equipments :** : Eye fountain

## SECTION 9 Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### 9.1.a. Appearance

- Physical state :** : Liquid
- Colour :** : Pink
- 9.1.b. Odour :** : Perfumed
- 9.1.c. Odour threshold :** : No information available
- 9.1.d. pH :** : 8 (product as is)
- 9.1.e. Melting point / Freezing point :** : No data
- 9.1.f. Initial boiling point - boiling range :** : No data
- 9.1.g. Flash point :** : 30 - 55 °C
- 9.1.h. Evaporation rate :** : No data
- 9.1.i. Flammability :** : Flammable liquid and vapour
- 9.1.j. Explosion limits (lower - upper) :** : No data
- 9.1.k. Vapour pressure :** : < 110 kPa
- 9.1.l. Vapour density :** : No information available
- 9.1.m. Density :** : < 1 g/cm<sup>3</sup> at 20 °C

#### 9.1.n. Solubility

- in water :** : Miscible in all proportions

#### 9.1.o. Partition coefficient : n-octanol / water

- water :** : No data

#### 9.1.p. Auto-ignition temperature

- :** : No data

#### 9.1.q. Thermal decomposition

- :** : No data

#### 9.1.r. Viscosity

- :** : < 7 mm<sup>2</sup>/s at 40°C

#### 9.1.s. Explosive Properties

- :** : Not explosive material according to EC criteria

#### 9.1.t. Oxidising properties

- :** : Non oxidizing material according to EC criteria

#### 9.2. Other information

- :** : No information available

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## SECTION 10 Stability and reactivity

- 10.1. Reactivity : No data
- 10.2. Chemical stability : Stable at ambient temperature and under normal conditions of use
- 10.3. Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use
- 10.4. Conditions to avoid : Avoid the build-up of electrostatic charge  
Keep away from heat/sparks/open flames/hot surfaces  
Avoid : Freezing
- 10.5. Incompatible materials : No information available
- 10.6. Hazardous decomposition products : On thermal decomposition (pyrolysis), releases :  
Carbon oxides (CO, CO<sub>2</sub>)

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

- Acute toxicity : Harmful if swallowed  
Harmful if inhaled
- On ingredients
- 2-butoxyethanol : Rabbit dermal LD50 [mg/kg] : 320 to 370  
: Rat inhalation LC50 [ppm/4h] : 450 to 490  
: Rat dermal LD50 [mg/kg] : 1480
- Propan-2-ol : Rat oral LD50 [mg/kg] : 4710  
: Rabbit dermal, LD50 [mg/kg] : 12870  
: Rat inhalation LC50 [mg/l/4h] : > 20
- Skin corrosion/irritation : Causes skin irritation
  - Serious eye damage/irritation : Causes serious eye damage
  - Respiratory or skin sensitisation : No information available
  - Germ cell mutagenicity : No information available
  - Carcinogenicity : No information available
  - Reproductive toxicity : No information available
  - STOT-single exposure : No information available
  - STOT-repeated exposure : No information available
  - Aspiration hazard : No information available

## SECTION 12 Ecological information

### 12.1. Toxicity

- Effects on the aquatic environment : No information available, however this product is not considered to present any particular risk for the aquatic environment.  
Do not allow the product, as is, to spread into the environment

### On ingredients

- Propan-2-ol : 48 Hour - EC50 - Daphnia magna [mg/l] : 13299  
: 72 Hours - EC50 - Algae [mg/l] : > 1000  
: 96 Hours - LC50 - Fish [mg/l] : 9640

- 12.2. Persistence and degradability : No information available

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**SECTION 12 Ecological information (continued)**

- 12.3. Bioaccumulative potential : No information available  
 12.4. Mobility in soil : No information available  
 12.5. Results of PBT and vPvB assessment : No information available  
 12.6. Other adverse effects : WGK (Water-endangerment class) : 1  
 No information available

**SECTION 13 Disposal considerations**
**13.1. Waste treatment methods**
**WASTE FROM PRODUCT :**

- Destruction/Disposal** : Do not discharge waste into drains  
 Recycle or dispose of in compliance with current legislation

**CONTAMINATED PACKAGING :**

- Decontamination/cleaning** : Empty the packaging completely prior to disposal  
**Destruction/Disposal** : Entrust the thoroughly decontaminated packaging to a licensed waste-contractor

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

**SECTION 14 Transport information**

- 14.1. UN number : UN 1993  
 14.2. UN proper shipping name : FLAMMABLE LIQUID, N.O.S. (Propan-2-ol)  
 14.3. Transport hazard class(es) : 3  
 Hazard Label(s) : 3



- 14.4. Packing group : III  
 14.5. Environmental hazards : Not classified as dangerous to the aquatic environment  
 Marine pollutant : NO  
 14.6. Special precautions for user  
**Rail/road (RID/ADR)** : Hazard identification number : 30  
 Classification code : F1  
 Tunnel restriction code : (D/E)  
 Limited quantities : 5 L  
**Sea transport** : EmS Nr : F-E, S-E  
 Limited quantities : 5 L  
**Air transport (OACI/IATA)** : Cargo aircraft:  
 Packing instruction: 366  
 Quantity: 220 L  
 Passenger aircraft:  
 Packing instruction: 355  
 Quantity: 60 L  
 Limited quantities : 10 L (Y344)

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## SECTION 14 Transport information (continued)

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

## SECTION 15 Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

France : Classified Installations : applicable  
Professional diseases(table(s) nr 84) : applicable

Germany : : WGK (Water-endangerment class) : 1

REGULATION EC No 648/2004 : Contains :  
Non-ionic surfactants : 5 % or over but less than 15 %  
- Perfume

15.2. Chemical safety assessment : No information available

## SECTION 16 Other information

Further information : Product for professional 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 regulation (UE) 453/2010.

Text of R-Phrases in § 3 : R11 : Highly flammable.  
R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.  
R36 : Irritating to eyes.  
R36/38 : Irritating to eyes and skin.  
R67 : Vapours may cause drowsiness and dizziness.

Text of H-Phrases in § 3 : H225 - Highly flammable liquid and vapour  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H336 - May cause drowsiness or dizziness

\* Update : All chapters have been modified since the previous version

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.

**End of document**

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