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FRIOGEL NEO -23

105400400

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : FRIOGEL NEO -23

1.2. Relevant identified uses of the substance or mixture and uses

advised against

1.2.1 Relevant identified uses : Antifreeze for central heating installations and frozen water installations : DEHON SERVICE

1.3. Details of the supplier of the

safety data sheet

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

: ContactFDS@climalife.dehon.com e-mail

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 (Spain): +34 91 562 04 20 Anti-poison Centre (Finland/Estonia): +358 9 471977 Anti-poison Centre (Netherlands): +31 30 274 8888 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 (: Not classified as dangerous product.

: Preparation

CLP)

2.2. Label elements

2.2.1 Labelling EC 1272/2008 (CLP) : None 2.3. Other hazards : -

SECTION 3 Composition/information on ingredients

3.1./3.2. Substance / Preparation

Components contributing to the

hazard:

Substance name Contents CAS No EC No Ref REACH Classification Index No 30 to 50 % 57-55-6 200-338-0 01-2119456809-23 Not classified. (DSD/DPD) Propane-1,2-diol

Not classified. (GHS)

In case of emergency: +33 (0) 1 72 11 00 03

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SECTION 4 First aid measures

4.1. Description of first aid measures

Inhalation : Not specifically applicable

If you feel unwell, seek medical advice.

Assure fresh air breathing.

Skin contact : Wash with soapy water
If case of redness or irritation, call a doctor

: 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 Never attempt to induce vomiting

consult a doctor

4.2. Most important symptoms and

effects, both acute and delayed

4.3. Indication of any immediate medical attention and special

treatment needed

Eye contact

: No information available

: No information available

SECTION 5 Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2)

Water spray

: Strong water jet

Alcohol resistant foam

Powders

Unsuitable extinguishing media

5.2. Special hazards arising from the

substance or mixture

Specific hazards : During combustion : Toxic vapours are released (CO, CO2)

5.3. Advice for firefighters

Specific fire fighting methods : Cool down the containers exposed to heat with a water spray

Do not attempt to fight the fire without suitable protective equipment

Clear the danger area

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

Only qualified personnel equipped with suitable protective equipment may intervene

Avoid contact with skin and eyes Do not breathe vapours Remove all sources of ignition

Do not smoke

6.2. Environmental precautions

: Contain the spilled material by bunding Prevent the product from entering drains

6.3. Methods and material for containment and cleaning up

- Neutralization

: Absorb spillage with:

- inert material (sand, earth)

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SECTION 6 Accidental release measures (continued)

- **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"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Technical measures : Ensure good ventilation of the work station

Vapour extraction at source : Handle in well ventilated areas

Remove all sources of ignition Avoid high temperatures.

Take precautionary measures against static discharges.

Smoking is forbidden

Industrial hygiene : Always wash hands after handling the product

Always take a shower after work.

Do not drink, eat or smoke in the workplace

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Precautions

- Recommended : Store :

the container tightly closed and dryin a dry, well-ventilated areaprotected from heataway from any source of ignition

Incompatible products Packaging materials

: Strong oxidizing agents

- Recommended : Stainless steel Aluminium.
Polyethylene

- Not suitable : Galvanized steel

Zinc

7.3. Specific end use(s)

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Engineering measures : Ensure good ventilation of the work station

8.1.1. Occupational Exposure Limits : Propane-1,2-diol : United Kingdom : WEL - TWA (8h; mg/m³) : 474 Propane-1,2-diol : United Kingdom : WEL - TWA (8h; ppm) : 150

8.2. Exposure controls Personal protection :

- Respiratory protection : If the ventilation is suitable, it is not essential to wear respiratory equipment

In case of insufficient ventilation, wear suitable respiratory equipment.

Mask with A canister

- Hand protection : Nitrile-rubber protective gloves

- Eye protection : Safety goggles

- Skin protection : Wear suitable protective clothing.

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SECTION 9 Physical and chemical properties

9.1. Information on basic physical and

chemical properties 9.1.a. Appearance

Physical state : Liquid
Colour : Red
9.1.b. Odour : None

9.1.c. Odour threshold : No information available

9.1.d. pH : 7.5 - 9 9.1.e. Melting point / Freezing point : - 23 °C 9.1.f. Initial boiling point - boiling : + 105 °C

range

9.1.g. Flash point : Not applicable

9.1.h. Evaporation rate
9.1.i. Flammability
9.1.j. Explosion limits (lower - upper)
Explosion limits - lower
Explosion limits - upper
17.4 % (volume)
9.1.k. Vapour pressure
No data

9.1.k. Vapour pressure: No data9.1.l. Vapour density: No data

9.1.m. Density : 1038 kg/m³ at 20 °C

9.1.n. Solubility

-in water : Complete

9.1.o. Partition coefficient: n-octanol /: - 1.07 (Propane-1,2-diol)

water

9.1.p. Auto-ignition temperature: 371 °C9.1.q. Thermal decomposition: No data9.1.r. Viscosity: No data

9.1.s. Explosive Properties
9.1.t. Oxidising properties
Not explosive material according to EC criteria
Non oxidizing material according to EC criteria

9.2. Other information

SECTION 10 Stability and reactivity

10.1. Reactivity : No dangerous reactions known under normal conditions of use

At temperatures above flash point : increased risk of fire / explosion

10.2. Chemical stability : Stable at ambient temperature and under normal conditions of use

10.3. Possibility of hazardous : May form flammable vapour-air mixtures.

reactions

Reacts violently with :

strong oxidizing agents.strong acids

10.4. Conditions to avoid : - high temperatures, naked flames

10.5. Incompatible materials
: - water, humidity
- strong acids
- strong oxidizing agents

strong oxidizing agents
 zinc and its alloys.

10.6. Hazardous decomposition products

: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic

gases

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SECTION 10 Stability and reactivity (continued)

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity On ingredients

Propane-1,2-diol : Rabbit dermal, LD50 [mg/kg] : 20800

: Rat oral LD50 [mg/kg] : 20000

· Skin corrosion/irritation : Not irritating to skin

• Serious eye damage/irritation : May cause slight temporary irritation to ocular mucous membranes

• Respiratory or skin sensitisation : No sensitizing effect is known : No information available Germ cell mutagenicity : No information available Carcinogenicity Reproductive toxicity : No information available • STOT-single exposure : No information available • STOT-repeated exposure : No information available : No information available Aspiration hazard

SECTION 12 Ecological information

12.1. Toxicity

Effects on the aquatic environment

: This product contains no hazardous components for the aquatic environment.

On ingredients Propane-1,2-diol

: 48 Hour - EC50 - Daphnia magna [mg/l] : 1000

: 72 Hour - EC50 - Algae (Selenastrum capricornutum) [mg/l] : 1000 : 96 Hours - LC50 - Fish (Pimephales Promelas) [mg/l]: 1000

12.2. Persistence and degradability : Readily biodegradable 12.3. Bioaccumulative potential : Propylene Glycol : - 1.07

12.4. Mobility in soil

assessment

No information available

12.5. Results of PBT and vPvB : This mixture contains no substance meeting PBT and vPvB criteria

SECTION 13 Disposal considerations

12.6. Other adverse effects

13.1. Waste treatment methods **WASTE FROM PRODUCT:**

Destruction/Disposal

: Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING:

Destruction/Disposal : Destroy at an authorised site

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SECTION 14 Transport information

RID/ADR/IMDG/IATA : Not regulated

SECTION 15 Regulatory information

15.1. Safety, health and environmental: Ensure all national/local regulations are observed.

regulations/legislation specific for the

substance or mixture

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

Germany : : Water hazard class : 1 (specific classification)

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.

* **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 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.

End of document

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