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FRIOGEL NEO -18

105400300

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

1.1. Product identifier

· FRIOGEL NEO -18 Trade name

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

1.3. Details of the supplier of the

safety data sheet

e-mail

: 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 : 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 (Finland/Estonia): +358 9 471977 Anti-poison Centre (Spain): +34 91 562 04 20 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 (

CLP)

2.1.2 Directive EEC/67/548 or 1999/45/ : Not classified as dangerous product.

Substance name

Propane-1,2-diol

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:

: Preparation

Ref REACH Contents CAS No EC No Index No Classification Not classified. (DSD/DPD) 20 to 40 % 57-55-6 200-338-0 01-2119456809-23

Not classified. (GHS)

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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

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

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

: 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 capuipment 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

Caution: this product can cause the floor to be slippery

6.2. Environmental precautions : Contain the

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

Precautions : 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

- Recommended : Store :

the container tightly closed and dry
in a dry, well-ventilated area
protected from heat

- away from any source of ignition

Incompatible products

Packaging materials

- Recommended : Stainless steel

Aluminium. Polyethylene

: Strong oxidizing agents

- Not suitable : Galvanized steel

Zinc

7.3. Specific end use(s) : No data

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

Permeation rates according to EN 374 : 6 (breakthrough time > 480 min)

- Eye protection : Safety goggles

* - Skin protection : Wear suitable protective clothing.

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SECTION 8 Exposure controls/personal protection (continued)

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 : - 18 °C
9.1.f. Initial boiling point - boiling : + 104 °C

range

9.1.g. Flash point : > 100 °C (Closed cup)
9.1.h. Evaporation rate : No information available
9.1.i. Flammability : Difficult to ignite
9.1.j. Explosion limits (lower - upper) : Propane-1,2-diol :
Explosion limits - lower : 2.4 % (volume)
Explosion limits - upper : 17.4 % (volume)
9.1.k. Vapour pressure : No data
9.1.l. Vapour density : No data

9.1.m. Density : 1033 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.

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

- zinc and its alloys.

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SECTION 10 Stability and reactivity (continued)

10.6. Hazardous decomposition

products

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

gases

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
 Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 No sensitizing effect is known
 No information available
 No information available
 No information available

Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 No information available
 No information available
 No information available
 No information available

SECTION 12 Ecological information

12.1. Toxicity

* Effects on the aquatic environment

a

: 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

12.3. Bioaccumulative potential

: Readily biodegradable: Propylene Glycol : - 1.07

Not potentially bioaccumulable.

: No information available

12.4. Mobility in soil

12.5. Results of PBT and vPvB

assessment

12.6. Other adverse effects

: This mixture contains no substance meeting PBT and vPvB criteria

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SECTION 13 Disposal considerations

13.1. Waste treatment methods WASTE FROM PRODUCT :

* Prohibition: : Do not allow the product to be released into the environment

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

CONTAMINATED PACKAGING:

Destruction/Disposal : Destroy at an authorised site

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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