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

1.1. Product identifier	
Trade name	: FRIOGEL NEO -20
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	: 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 (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

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 2.1. Classification of the substance or mixture

 2.1.1. Regulation (EC) No 1272/2008 (: Not classified as dangerous product. 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 / Preparatic Components contributing to the hazard :	•					
Substance name	Contents	CAS No	EC No	Index No	Ref REACH	Classification
Propane-1,2-diol	20 to 40 %	57-55-6	200-338-0		01-2119456809-23	Not classified. (DSD/DPD)

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SECTION 4 First aid measures

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4.1. Description of first aid measures	3
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	: 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	: Carbon dioxide (CO2) Water spray Alcohol resistant foam Powders
Unsuitable extinguishing media	: Strong water jet
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 Caution : this product can cause the floor to be slippery
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

Technical measures	: Ensure good ventilation of the work station Vapour extraction at source
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 away from any source of ignition
Incompatible products	: Strong oxidizing agents
Packaging materials	
- Recommended	: Stainless steel Aluminium. Polyethylene
- Not suitable	: Galvanized steel Zinc

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 9 Physical and chemical properties

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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	- 20 °C
9.1.f. Initial boiling point - boiling	+ 104 °C
range	
9.1.g. Flash point	Not applicable
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.I. Vapour density	No data
9.1.m. Density	1035 kg/m³ at 20 °C
9.1.n. Solubility	
-in water	Complete
9.1.o. Partition coefficient : n-octanol / : water	- 1.07 (Propane-1,2-diol)
9.1.p. Auto-ignition temperature	371 °C
9.1.q. Thermal decomposition	No data
9.1.r. Viscosity	No data
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	

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 reactions	 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.
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

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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
 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

: No information available

Aspiration hazard

SECTION 12 Ecological information

Effects on 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	: No information available
12.5. Results of PBT and vPvB assessment	: This mixture contains no substance meeting PBT and vPvB criteria
12.6. Other adverse effects	

SECTION 13 Disposal considerations

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

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: Not regulated

SECTION 15 Regulatory information

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