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

1.1. Product identifier

Trade name : NEUTRAGEL NEO

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

1.2.1 Relevant identified uses : Antifreeze for heating circuit, iced water production

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)

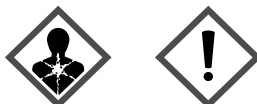
Health hazards : Acute toxicity, Oral - Category 4 (Acute Tox. 4) - H302
Specific Target Organ Toxicity - Repeated exposure - Category 2 (STOT RE 2) - H373

2.2. Label elements

2.2.1 Labelling EC 1272/2008 (CLP)

Contains : Ethanediol

Hazard pictograms



Signal words

: Warning

Hazard statements

: H302 : Harmful if swallowed
H373 : May cause damage to organs (kidneys) through prolonged or repeated exposure.

Precautionary statements :

- Prevention : P260 : Do not breathe dust/fume/gas/mist/vapours/spray.
 - Response : P301+P312 : If swallowed, call a doctor if you feel unwell.
P330 : Rinse mouth.
 - Disposal considerations : P501 : Dispose of contents / container to an authorized center in accordance with national regulation
- 2.3. Other hazards : None under normal conditions

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SECTION 3 Composition/information on ingredients

3.1./3.2. Substance / Preparation : Preparation

Components contributing to the hazard :

Substance name	Contents	CAS No	EC No	Index No	Ref REACH	Classification
Ethanediol	> 90 %	107-21-1	203-473-3	603-027-00-1	01-2119456816-28	Xn; R22 Acute Tox. 4 (Oral); H302 STOT RE 2; H373

SECTION 4 First aid measures

4.1. Description of first aid measures

- Inhalation** : Move the affected person away from the contaminated area and into the fresh air
If symptoms persist call a doctor
- Skin contact** : Remove all contaminated clothing and footwear
Wash with soapy water
If case of redness or irritation, call a doctor
- Eye contact** : Rinse immediately with plenty of water (for at least 15 minutes)
Consult an eye specialist if necessary
- Ingestion** : Rinse mouth out with water
Never attempt to induce vomiting
Do NOT give the affected person anything to drink, even if he is fully conscious
Call a doctor immediately

4.2. Most important symptoms and effects, both acute and delayed

- : Headaches
Nausea
Vomiting
Central Nervous System depressant

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
Foam
Powders

5.2. Special hazards arising from the substance or mixture

- Specific hazards** : Toxic gases are released

5.3. Advice for firefighters

- Specific fire fighting methods** : Cool down the containers exposed to heat with a water spray
- Protection of fire-fighters** : Self-contained breathing apparatus
Protective clothing

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SECTION 6 Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures** : Avoid contact with skin and eyes
Do not breathe vapours
Do not attempt to take action without suitable protective equipment
Remove all sources of ignition
- 6.2. Environmental precautions** : Avoid direct discharge into drains
Contain the spilled material by bunding
- 6.3. Methods and material for containment and cleaning up** : Absorb spillage with:
- inert material (sand, earth)
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**
Precautions : Handle in well ventilated areas
Avoid any direct contact with the product
Keep away from ignition sources (including static discharges).
Smoking is forbidden
- Industrial hygiene** : Do not drink, eat or smoke in the workplace
- 7.2. Conditions for safe storage, including any incompatibilities**
Storage conditions
- Recommended** : Store :
- away from any source of ignition
- in a cool, well-ventilated area
- the container tightly closed and dry
- Incompatible products** : Strong oxidizing agents
- Packaging materials**
- Recommended** : Coated steels
Plastic materials
- Not suitable** : Galvanised receptacles
Aluminium.
- 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** : Ethanediol : France : LEP - VME (8h; mg/m³) : 52
Ethanediol : France : LEP - VME (8h; ppm) : 20
Ethanediol : France : LEP - VLE (15min; mg/m³) : 104
Ethanediol : France : LEP - VLE (15min; ppm) : 40
Ethanediol : United Kingdom : WEL - TWA (8h; mg/m³) : 52
Ethanediol : United Kingdom : WEL - STEL (15min; mg/m³) : 104
Ethanediol : United Kingdom : WEL - STEL (15min; ppm) : 40
Ethanediol : Germany : MAK - TWA (8h; mg/m³) : 26
Ethanediol : Germany : MAK - TWA (8h; ppm) : 10
Ethanediol : Germany : MAK - STEL (15min; mg/m³) : 52
Ethanediol : Germany : MAK - STEL (15min; ppm) : 20
Ethanediol : Netherlands : MAC - TWA (8h; mg/m³) : 104
Ethanediol : Netherlands : MAC - STEL (15min; mg/m³) : 52
Ethanediol : Switzerland : LEP - VME (8h; mg/m³) : 26

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SECTION 8 Exposure controls/personal protection (continued)

Ethanediol : Switzerland : LEP - VME (8h; ppm) : 10
Ethanediol : Switzerland : LEP - VLE (15min; mg/m³) : 52
Ethanediol : Switzerland : LEP - VLE (15min; ppm) : 20

8.2. Exposure controls

Personal protection :

- Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
If the occupational exposure limit is exceeded : Mask with A canister
- Hand protection : Protective gloves made of PVC.
Neoprene protective gloves
Nitrile-rubber protective gloves
- Eye protection : Safety goggles

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 : sweet

9.1.c. Odour threshold : No information available

9.1.d. pH : 7.5 to 9 (33 % aqueous solution)

9.1.e. Melting point / Freezing point : ~ -15 °C

9.1.f. Initial boiling point - boiling range : 172°C

* 9.1.g. Flash point : Not applicable

9.1.h. Evaporation rate : No data

9.1.i. Flammability : Non flammable.

9.1.j. Explosion limits (lower - upper)

Explosion limits - lower : Ethylene glycol : 3.2 % (volume)

Explosion limits - upper : Ethylene glycol : 53 % (volume)

9.1.k. Vapour pressure : No information available

9.1.l. Vapour density : No information available

9.1.m. Density : 1.11 g/cm³ at 20 °C

9.1.n. Solubility

-in water : Miscible in all proportions

9.1.o. Partition coefficient : n-octanol / water : Ethylene glycol : -1.36

9.1.p. Auto-ignition temperature : Ethylene glycol : 410°C

9.1.q. Thermal decomposition : > 200°C

9.1.r. Viscosity : Ethylene glycol : 16.1 mPa.s at 25°C

9.1.s. Explosive Properties : Not explosive material according to EC criteria
Can form explosive mixtures with air

9.1.t. Oxidising properties : Non oxidizing material according to EC criteria

9.2. Other information : No information available

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SECTION 9 Physical and chemical properties (continued)

SECTION 10 Stability and reactivity

- 10.1. Reactivity
- 10.2. Chemical stability : Stable at ambient temperature and under normal conditions of use
- 10.3. Possibility of hazardous reactions : May react violently with acids.
- 10.4. Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- water, humidity
- 10.5. Incompatible materials : - strong acids
- strong bases
- strong oxidizing agents
- 10.6. Hazardous decomposition products : On combustion or on thermal decomposition (pyrolysis) releases : Carbon oxides (CO, CO₂)

SECTION 11 Toxicological information

- 11.1. Information on toxicological effects
- Acute toxicity : Harmful if swallowed
- On ingredients
- Ethanediol : Rat inhalation LC50 [mg/l] : > 2.5 / 6h
: Rabbit dermal, LD50 [mg/kg] : 9530
: Rat oral LD50 [mg/kg] : 7712
- Skin corrosion/irritation : May cause slight irritation to the skin
 - Serious eye damage/irritation : Not irritating to eyes
 - Respiratory or skin sensitisation : No sensitizing effect is known
 - Germ cell mutagenicity : No mutagenic effect
 - Carcinogenicity : No carcinogenic effect
 - 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 : The product does not have any known adverse effect on the tested aquatic organisms
- On ingredients
- Ethanediol : 48 Hours - LC50 - Daphnia magna [mg/l] : > 100
: 96 Hours - LC50 - Fish (Oncorhynchus mykiss) [mg/l] : 18500
: 96 Hour - EC50 - Algae (Selenastrum capricornutum) [mg/l] : 6500 to 13000
: 96 Hours - LC50 - Fish (Pimephales Promelas) [mg/l] : 72860
- 12.2. Persistence and degradability : Readily biodegradable

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SECTION 12 Ecological information (continued)

- 12.3. Bioaccumulative potential : Not potentially bioaccumulable.
Octanol/water partition coefficient : Ethylene glycol : - 1.36
12.4. Mobility in soil : Ethylene glycol : Very mobile in soil.
12.5. Results of PBT and vPvB assessment : Ethylene glycol : This substance is considered not to be PBT and vPvB
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
NOTE : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal

SECTION 14 Transport information

- RID/ADR/IMDG/IATA : Not regulated

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 : Professional diseases(table(s) nr 84) : applicable
Germany : WGK (Water-endangerment class) : 1
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 : R22 : Harmful if swallowed.
Text of H-Phrases in § 3 : H302 - Harmful if swallowed
H373 - May cause damage to organs ... through prolonged or repeated exposure
* 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.

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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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