

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

1.1. Product identifier

Product form : Mixture
 Name : NEUTRAGEL NEO -16
 Product code : 105425100

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Antifreeze for heating circuit, iced water production

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Dehon Service SAS
 26 Avenue du Petit Parc
 94683 VINCENNES Cedex
 France
 T 01 43 98 75 00 - F 01 43 98 21 51
ContactFDS@climalife.dehon.com

Other

Climalife Kft Budepesta sucursală Bucuresti Romania
 Bulevardul Hristo Botev, Nr. 28, Biroul NR 4, Modulul I
 Bucuresti Sectorul 3
 Romania
ContactFDS@climalife.dehon.com

Other

Dehon Kälte-Fachvertriebs GmbH
 Robert-Bosch-Strasse 14
 40668 MEERBUSCH
 Germany
 T 00 49 2150 7073 0 - F 00 49 2150 7073 17
ContactFDS@climalife.dehon.com

Other

Dehon Service Belgium s.a/n.v.
 Avenue Carton de Wiart, 79
 1090 Bruxelles
 Belgium
 T 00 32 2 421 01 70 - F 00 32 2 426 96 62
ContactFDS@climalife.dehon.com

Other

Friogas sa
 Poligono Industrial SEPES Parcela 10
 46500 SAGUNTO (Valencia)
 Spain
 T 00 34 9 6 266 36 32 - F 00 34 9 6 266 50 25
ContactFDS@climalife.dehon.com

Other

IDS Refrigeration Limited
 22 Apex Court, Woodlands, Bradley Stoke
 BS32 4JT Bristol
 United Kingdom
 T 00 44 1179 802520 - F 00 44 1179 802521
ContactFDS@climalife.dehon.com

Other

Climalife Hongrie Kft
 Villányi út 47
 1118 Budaörs
 Hungary
 T (36) 23 431 660 - F (36) 23 431 661
ContactFDS@climalife.dehon.com

Other

Climalife Supplied by Inventec Performance Chemicals Italia SRL
 Via del Lavoro, 10/G
 20874 Busnago MB
 Italia
 T +39 39-5973480 - F +39 39-5973490
ContactFDS@climalife.dehon.com

Other

Dehon nordic service
 Östra Hamngatan 50B 3tr
 41109 GÖTEBORG
 Sweden
 T 00 46 44 21 58 80 - F 00 46 44 21 58 80
ContactFDS@climalife.dehon.com

Other

Dehon Service Nerderland B.V.
 Van Konijnenburgweg 84
 NL-4612 PL Bergen Op Zoom
 Netherlands
 T 00 31 164 212 830 - F 00 31 164 212 831
ContactFDS@climalife.dehon.com

Other

Galco s.a/n.v.
 Avenue Carton de Wiart, 79
 1090 BRUSSELS
 Belgium
 T 00 32 2 421 01 84 - F 00 32 2 421 01 84 / 00 32 2 425 38 12
ContactFDS@climalife.dehon.com

Other

Prochimac SA
 ZI Petits Champs 15
 CH-1400 Yverdon-les-Bains
 Switzerland
 T 00 41 32 727 36 00 - F 00 41 32 727 36 19
ContactFDS@climalife.dehon.com

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1.4. Emergency telephone number

Emergency number : +33 (0) 1 72 11 00 03

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|-----------------------------------|------------------|-----------------------------------|
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | Only for healthcare professionals |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302

STOT RE 2 H373

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

Contains :

Ethane-1,2-diol

Hazard statements (CLP) :

H302 - Harmful if swallowed.

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

Precautionary statements (CLP) :

P260 - Do not breathe dust, fume, gas, mist, vapours, spray.

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|---|
| Ethane-1,2-diol substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit | CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816-28 | 25 – 35 | Acute Tox. 4 (Oral), H302 STOT RE 2, H373 |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice. |
| First-aid measures after skin contact | : Remove all contaminated clothing and footwear. Wash with soapy water. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Do not give the affected person anything to drink, even if he is fully conscious. Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER/doctor. If possible show him this sheet. Failing this, show him the packaging or label. |

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

| | |
|----------------------------------|---|
| Symptoms/effects after ingestion | : Harmful if swallowed. Headache. Nausea. Vomiting. CNS depression. |
|----------------------------------|---|

4.3. Indication of any immediate medical attention and special treatment needed

No supplementary information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|------------------------------|--|
| Suitable extinguishing media | : Carbon dioxide. Water spray. Foam. Dry powder. |
|------------------------------|--|

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Fire hazard | : Cool down the containers exposed to heat with a water spray. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Avoid contact with skin and eyes. Do not breathe smoke. |
|------------------|---|

6.1.1. For non-emergency personnel

| | |
|----------------------|------------------|
| Emergency procedures | : Evacuate area. |
|----------------------|------------------|

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. |
|----------------------|--|

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Emergency procedures : Stop leak if safe to do so. Contain the spilled material by bunding.

6.2. Environmental precautions

Do not discharge into drains or rivers. Do not allow product to spread into the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Pump up the product into a suitably labelled spare container. Take up liquid spill into absorbent material. Transfer the product into a spare container: suitably labelled.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe vapours, spray. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place.
Incompatible products : Strong oxidizing agents.
Storage temperature : Store at ambient temperature
Packaging materials : Recommended materials Coated steels, Plastic materials. Unsuitable materials: Galvanized steel, Aluminium, Zinc.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Ethane-1,2-diol (107-21-1) | |
|--|---|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 52 mg/m ³ |
| IOEL TWA [ppm] | 20 ppm |
| IOEL STEL | 104 mg/m ³ |
| IOEL STEL [ppm] | 40 ppm |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Ethane-1,2-diol |
| WEL TWA (OEL TWA) [1] | 10 mg/m ³ particulate 52 mg/m ³ vapour |
| WEL TWA (OEL TWA) [2] | 20 ppm vapour |
| WEL STEL (OEL STEL) | 104 mg/m ³ vapour |
| WEL STEL (OEL STEL) [ppm] | 40 ppm vapour |

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Ethane-1,2-diol (107-21-1)

Remark

Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields

8.2.2.2. Skin protection

Skin and body protection:

Majority cotton protective clothing

Hand protection:

natural rubber gloves. Nitrile-rubber protective gloves. neoprene gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

If the ventilation is suitable, it is not essential to wear respiratory equipment. If the occupational exposure limit is exceeded: Gas mask with filter type A

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------------|--|
| Physical state | : Liquid |
| Colour | : red. |
| Odour | : Mild. |
| Odour threshold | : Not available |
| Melting point | : -16 °C |
| Freezing point | : Not available |
| Boiling point | : 103 °C |
| Flammability | : Not available |
| Explosive properties | : Not explosive material according to EC criteria. |
| Oxidising properties | : Non oxidizing material according to EC criteria. |
| Explosive limits | : Not available |

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| | |
|---|----------------------------------|
| Lower explosion limit | : 3.2 vol % (Ethylene Glycol) |
| Upper explosion limit | : 53 vol % (Ethylene Glycol) |
| Flash point | : Not applicable. |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : > 200 °C |
| pH | : ≈ 8.5 |
| Viscosity, kinematic | : Not available |
| Solubility | : In water, material soluble. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50 °C | : Not available |
| Density | : 1.041 g/cm ³ (20°C) |
| Relative density | : Not available |
| Relative vapour density at 20 °C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Reacts violently with acids.

10.4. Conditions to avoid

Water, humidity.

10.5. Incompatible materials

Strong bases. Strong acids. Strong oxidizers.

10.6. Hazardous decomposition products

On thermal decomposition (pyrolysis), releases : Carbon oxides (CO, CO₂), Acetic aldehyde.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|-----------------------------|-------------------------|
| Acute toxicity (oral) | : Harmful if swallowed. |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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| | |
|----------------|--------------------------|
| ATE CLP (oral) | 579.979 mg/kg bodyweight |
|----------------|--------------------------|

Ethane-1,2-diol (107-21-1)

| | |
|---------------|-----------------------|
| LD50 oral rat | 7712 mg/kg bodyweight |
| LD50 dermal | 3500 mg/kg mouse |

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Ethane-1,2-diol (107-21-1)

| | |
|-----------------------------------|-------------------------------|
| LC50 Inhalation - Rat | > 2.5 mg/l |
| Skin corrosion/irritation | : Not classified pH: ≈ 8.5 |
| Serious eye damage/irritation | : Not classified pH: ≈ 8.5 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

Ethane-1,2-diol (107-21-1)

| | |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years) | 1500 mg/kg bodyweight mouse |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed). |

Ethane-1,2-diol (107-21-1)

| | |
|------------------------|--|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Ecology - general | : Do not allow product to spread into the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

Ethane-1,2-diol (107-21-1)

| | |
|------------------------|---|
| LC50 - Fish [1] | 72860 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | > 100 mg/l Daphnia magna (Water flea) |
| EC50 72h - Algae [1] | 6500 – 13000 mg/l (96 Hours) |
| EC50 96h - Algae [1] | 3536 mg/l aquatic algae |
| EC50 96h - Algae [2] | 6500 – 13000 mg/l Pseudokirchneriella subcapitata |
| NOEC (chronic) | ≥ 1000 mg/l Americamysis bahia |
| NOEC chronic fish | 15380 mg/l 7 days (Pimephales promelas) |
| NOEC chronic crustacea | 8590 mg/l 7 days (Daphnia) |

12.2. Persistence and degradability

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| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

12.3. Bioaccumulative potential

Ethane-1,2-diol (107-21-1)

| | |
|---|--------------|
| Partition coefficient n-octanol/water (Log Kow) | -1.36 (23°C) |
|---|--------------|

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.
Ecology - waste materials : Do not discharge into drains or the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR | IMDG | IATA |
|---|----------------|----------------|
| 14.1. UN number or ID number | | |
| Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | |
| Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | |
| Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | |
| Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | |
| Not applicable | Not applicable | Not applicable |
| No supplementary information available | | |

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

All chapters have been modified since the previous version.

Full text of H- and EUH-statements:

| | |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| H302 | Harmful if swallowed. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.