

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

1.1. Product identifier

Product form : Mixture
 Name : NEUTRAGEL NEO -20
 Product code : 105425200

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
 Green Court, Kings Weston Lane
 Avonmouth
 BS11 8AZ 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
 Rue du Château 10
 CH-2000 NEUCHÂTEL - Switzerland
 T 00 41 32 727 36 00 - F 00 41 32 727 36 19
ContactFDS@climalife.dehon.com

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 | |

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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 and H-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)



GHS07

GHS08

Signal word (CLP)

: Warning

Hazardous ingredients

: ethylene glycol

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/doctor 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

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|--|---------|---|
| ethylene glycol | (CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28 | 30 - 40 | Acute Tox. 4 (Oral), H302 STOT RE 2, H373 |

Full text of H-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.

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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.
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

ethylene glycol (107-21-1)

EU - Occupational Exposure Limits

| | |
|---------------------------------|-----------------------|
| IOELV TWA (mg/m ³) | 52 mg/m ³ |
| IOELV TWA (ppm) | 20 ppm |
| IOELV STEL (mg/m ³) | 104 mg/m ³ |
| IOELV STEL (ppm) | 40 ppm |

Belgium - Occupational Exposure Limits

| | |
|---------------------------------------|-----------------------|
| Limit value (mg/m ³) | 52 mg/m ³ |
| Limit value (ppm) | 20 ppm |
| Short time value (mg/m ³) | 104 mg/m ³ |
| Short time value (ppm) | 40 ppm |

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| France - Occupational Exposure Limits | |
|---|---|
| VME (mg/m ³) | 52 mg/m ³ |
| VME (ppm) | 20 ppm |
| VLE (mg/m ³) | 104 mg/m ³ |
| VLE (ppm) | 40 ppm |
| Spain - Occupational Exposure Limits | |
| Notes | Vía dérmica: (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.) |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Ethane-1,2-diol |
| WEL TWA (mg/m ³) | 10 mg/m ³ particulate 52 mg/m ³ vapour |
| WEL TWA (ppm) | 20 ppm vapour |
| WEL STEL (mg/m ³) | 104 mg/m ³ vapour |
| WEL STEL (ppm) | 40 ppm vapour |
| Remark (WEL) | 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) |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

natural rubber gloves. Nitrile-rubber protective gloves. neoprene gloves. Protective gloves made of PVC.

Eye protection:

Safety glasses with side shields

Skin and body protection:

Majority cotton protective clothing

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

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 | : No data available |
| pH | : ≈ 8.5 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : -20 °C |
| Freezing point | : No data available |
| Boiling point | : 104 °C |
| Flash point | : Not applicable. |

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| | |
|----------------------------------|--|
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : > 200 °C |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1.049 g/cm ³ (20°C) |
| Solubility | : In water, material soluble. |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Not explosive material according to EC criteria. |
| Oxidising properties | : Non oxidizing material according to EC criteria. |
| Lower explosive limit (LEL) | : 3.2 vol % (Ethylene Glycol) |
| Upper explosive limit (UEL) | : 53 vol % (Ethylene Glycol) |

9.2. Other information

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 toxicological effects

| | |
|-----------------------------|-------------------------|
| 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 |
|----------------|--------------------------|

ethylene glycol (107-21-1)

| | |
|----------------------------|------------------|
| LD50 oral rat | 7712 mg/kg |
| LD50 dermal | 3500 mg/kg mouse |
| LC50 inhalation rat (mg/l) | > 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 |
| 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). |
| Aspiration hazard | : Not classified |

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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 |

ethylene glycol (107-21-1)

| | |
|------------------------|---|
| LC50 fish 1 | 72860 mg/l 96 Hours (Pimephales promelas) |
| EC50 Daphnia 1 | > 100 mg/l (48 Hours) |
| EC50 72h algae (1) | 6500 - 13000 mg/l (96 Hours) |
| 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

ethylene glycol (107-21-1)

| | |
|---------|--------------|
| Log Kow | -1.36 (23°C) |
|---------|--------------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|------------------------------|---|
| Regional legislation (waste) | : Switzerland : OTD : RS 814.600 / OMoD : RS 814.610. |
| 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 / IATA / IMDG

| ADR | IMDG | IATA |
|---|----------------|----------------|
| 14.1. UN 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

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Transport by sea

Not applicable

Air transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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

15.1.2. National regulations

France

Occupational diseases : RG 84 - Affections engendrées par les solvants organiques liquides à usage professionnel

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Switzerland

Swiss National Regulations : ORRChim RS 814.81.

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 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| H302 | Harmful if swallowed. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

SDS EU (REACH Annex II)

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.