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

1. **Product identifier**
   Huber Frostschutzmittel

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

   **Use of the substance/mixture**
   - Anti-freezing agent

   **Uses advised against**
   - Any non-intended use.

3. **Details of the supplier of the safety data sheet**
   - Company name: Peter Huber Kältemaschinenbau SE
   - Street: Werner-von-Siemens-Strasse 1
   - Place: D-77656 Offenburg
   - Telephone: +49 (0) 781 9603-0
   - Telefax: +49 (0) 781 57211
   - E-mail: info@huber-online.com
   - Internet: www.huber-online.com
   - Responsible Department: info@huber-online.com

4. **Emergency telephone number:**
   - Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

**Further Information**

**SECTION 2: Hazards identification**

1. **Classification of the substance or mixture**
   - Regulation (EC) No 1272/2008
     - Acute Tox. 4; H302
     - STOT RE 2; H373

   Full text of hazard statements: see SECTION 16.

2. **Label elements**
   - Regulation (EC) No 1272/2008
   - Hazard components for labelling
     - ethanediol; ethylene glycol

   **Signal word:** Warning

   **Pictograms:**
   - Exclamation mark
   - Skull and crossbones

3. **Hazard statements**
   - H302: Harmful if swallowed.
   - H373: May cause damage to organs through prolonged or repeated exposure.

4. **Precautionary statements**
   - P260: Do not breathe dust/fume/gas/mist/vapours/spray.
   - P264: Wash hands thoroughly after handling.
   - P270: Do not eat, drink or smoke when using this product.
   - P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
   - P330: Rinse mouth.
   - P501: Dispose of contents/container to local/regional/national/international regulations.
2.3. Other hazards

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance (> 0.1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. This product does not contain a substance (> 0.1%) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EC No</td>
<td>Index No</td>
</tr>
<tr>
<td></td>
<td>Classification (Regulation (EC) No 1272/2008)</td>
<td></td>
</tr>
<tr>
<td>107-21-1</td>
<td>ethanediol; ethylene glycol</td>
<td>50 - 100 %</td>
</tr>
<tr>
<td>203-473-3</td>
<td>803-027-00-1</td>
<td>01-2119456816-28</td>
</tr>
</tbody>
</table>

Acute Tox. 4, STOT RE 2; H302 H373

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

Specific Conc. Limits, M-factors and ATE

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>203-473-3</td>
<td>ethanediol; ethylene glycol</td>
<td>50 - 100 %</td>
</tr>
</tbody>
</table>

dermal: LD50 = >5000 mg/kg; oral: ATE = 500 mg/kg

Further Information

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment. Take off immediately all contaminated clothing.

After contact with eyes

Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. Alcohol resistant foam. Atomized water.
**Unsuitable extinguishing media**
High power water jet.

**5.2. Special hazards arising from the substance or mixture**
Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide (CO).

**5.3. Advice for firefighters**
In case of fire: Wear self-contained breathing apparatus.

**Additional information**
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

### SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

- **General advice**
  Safe handling: see section 7

- **For non-emergency personnel**
  Wear personal protection equipment (refer to section 8).

- **For emergency responders**
  No special measures are necessary.

**6.2. Environmental precautions**
Discharge into the environment must be avoided.

**6.3. Methods and material for containment and cleaning up**

- **For containment**
  Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

- **For cleaning up**
  Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

- **Advice on safe handling**
  Wear personal protection equipment (refer to section 8). Handle and open container with care. Do not breathe fume/ mist/ vapours. Vapours / aerosols should be extracted by suction directly at point of origin.

- **Advice on protection against fire and explosion**
  Usual measures for fire prevention. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges.

- **Advice on general occupational hygiene**
  Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

- **Further information on handling**
  General protection and hygiene measures: See section 8.

**7.2. Conditions for safe storage, including any incompatibilities**

- **Requirements for storage rooms and vessels**
  Keep container tightly closed in a cool, well-ventilated place.
Hints on joint storage

Further information on storage conditions
Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
Recommended storage temperature: 20 °C
Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)
See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fib/cm³</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-21-1</td>
<td>(OLD) 1,2-Dihydroxyethane, particulate</td>
<td>-</td>
<td>10</td>
<td></td>
<td>TWA (8 h)</td>
<td></td>
</tr>
</tbody>
</table>

DNEL/DMEL values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>DNEL type</th>
<th>Exposure route</th>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-21-1</td>
<td>ethanediol; ethylene glycol</td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>106 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>local</td>
<td>35 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>53 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>inhalation</td>
<td>local</td>
<td>7 mg/m³</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls
Technical measures and the application of suitable work processes have priority over personal protection equipment.
Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses; chemical goggles (if splashing is possible). EN 166

Hand protection
Wear suitable gloves.
Suitable material:
- FKM (fluororubber). - Thickness of glove material: 0,4 mm
  Breakthrough time >= 8 h
- Butyl rubber. - Thickness of glove material: 0,5 mm
  Breakthrough time >= 8 h
- CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm
  Breakthrough time >= 8 h
- NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm
  Breakthrough time >= 8 h
PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm
Breakthrough time >= 8 h
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it. Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Skin protection**
Suitable protective clothing: Lab apron.

**Respiratory protection**
With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at: Insufficient ventilation: particulates filter device (DIN EN 143).

**Environmental exposure controls**
Do not allow uncontrolled discharge of product into the environment.

---

**SECTION 9: Physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>light yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>hardly noticeable</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not determined</td>
</tr>
</tbody>
</table>

**Test method**

<table>
<thead>
<tr>
<th>Property</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/freezing point</td>
<td>-12,4 °C</td>
</tr>
<tr>
<td>Boiling point or initial boiling point and</td>
<td>165 °C</td>
</tr>
<tr>
<td>boiling range</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>not determined</td>
</tr>
<tr>
<td>Lower explosion limits</td>
<td>3 vol. %</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>43 vol. %</td>
</tr>
<tr>
<td>Flash point</td>
<td>119 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>398 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>~260 °C</td>
</tr>
<tr>
<td>pH-Value (at 20 °C)</td>
<td>8</td>
</tr>
<tr>
<td>Viscosity / kinematic</td>
<td>not determined</td>
</tr>
<tr>
<td>Water solubility</td>
<td>completely miscible</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>not determined</td>
</tr>
<tr>
<td>Dissolution rate</td>
<td>not relevant</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water</td>
<td>not relevant</td>
</tr>
<tr>
<td>Dispersion stability</td>
<td>not relevant</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>0,08 (CAS: 107-21-1) hPa</td>
</tr>
<tr>
<td>(at 20 °C)</td>
<td></td>
</tr>
<tr>
<td>Density (at 20 °C)</td>
<td>1,13 g/cm³</td>
</tr>
<tr>
<td>Bulk density</td>
<td>not determined</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>not determined</td>
</tr>
<tr>
<td>Particle characteristics</td>
<td>not relevant</td>
</tr>
</tbody>
</table>

---

**9.2. Other information**

**Information with regard to physical hazard classes**

Explosive properties: none

Sustaining combustion: Not sustaining combustion
Self-ignition temperature
Solid: not relevant
Gas: not relevant

Oxidizing properties
none

Other safety characteristics
Evaporation rate: not determined
Solvent separation test: not determined
Solvent content: not determined
Solid content: not determined
Sublimation point: not determined
Softening point: not determined
Pour point: not determined
Viscosity / dynamic: not determined
Flow time: not determined

Further Information
No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
Refer to chapter 10.5.

10.4. Conditions to avoid
storage temperature: < 260°C
Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials
Materials to avoid: Oxidizing agents, strong. acid.

10.6. Hazardous decomposition products
Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Toxicokinetics, metabolism and distribution
No data available.

Acute toxicity
Harmful if swallowed.

ATEmix calculated
ATE (oral) 500,0 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-21-1</td>
<td>ethanediol, ethylene glycol</td>
<td>oral</td>
<td>ATE</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Irritation and corrosivity
Based on available data, the classification criteria are not met.

Sensitising effects
Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.
ethanediol; ethylene glycol:
In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative.
Literature information: REACH Dossier; Carcinogenicity: Method: oral. Species: Mouse. Exposure duration: 2 years. Result: NOAEL = 1500 mg/kg; Literature information: REACH Dossier; Developmental toxicity/teratogenicity: Method: - ; Species: Mouse.; Exposure duration: 20 d. Result: NOAEC = 2500 mg/m3; Literature information: REACH Dossier

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
May cause damage to organs through prolonged or repeated exposure. (ethanediol; ethylene glycol)
ethanediol; ethylene glycol:
Subacute oral toxicity: Method: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study);
Species: Dog.; Exposure duration: 28 d. Results: NOAEL = 2200 mg/kg(bw)/day ; Literature information: REACH Dossier

Aspiration hazard
Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal
No data available.

11.2. Information on other hazards
Endocrine disrupting properties
No data available.
Other information
No data available.

SECTION 12: Ecological information

12.1. Toxicity
The product has not been tested.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-21-1</td>
<td>ethanediol; ethylene glycol</td>
<td>Acute fish toxicity</td>
<td>LC50 mg/l</td>
<td>72860</td>
<td>96 h</td>
<td>Pimephales promelas</td>
<td>REACH Dossier</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50 mg/l</td>
<td>&gt;100</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>REACH Dossier</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish toxicity</td>
<td>NOEC mg/l</td>
<td>&gt; 40</td>
<td>28 d</td>
<td>Menidia peninsulæ</td>
<td>REACH Dossier</td>
<td>ASTM E-47.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crustacea toxicity</td>
<td>NOEC mg/l</td>
<td>8590</td>
<td>7 d</td>
<td>Ceriodaphnia dubia</td>
<td>REACH Dossier</td>
<td>EPA 600/4-89/001, U.S. Environment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute bacteria toxicity</td>
<td>(EC50 mg/l)</td>
<td>&gt;10000</td>
<td></td>
<td>Pseudomonas putida</td>
<td>REACH Dossier</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
The product has not been tested.

## 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-21-1</td>
<td>ethanediol; ethylene glycol</td>
<td>-1.36</td>
</tr>
</tbody>
</table>

## 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

## 12.7. Other adverse effects

No data available.

### Further information

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/waste marking according to (EWC) European Waste Catalogue:

#### List of Wastes Code - residues/unused products

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>160114</td>
<td>WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing hazardous substances; hazardous waste</td>
</tr>
</tbody>
</table>

#### List of Wastes Code - used product

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>160114</td>
<td>WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing hazardous substances; hazardous waste</td>
</tr>
</tbody>
</table>

#### List of Wastes Code - contaminated packaging
CONTAMINATED PACKAGING

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

refer to chapter 6 - 8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC): not determined
2004/22/EC (VOC): not determined
Information according to 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): 3

National regulatory information
Employment restrictions:
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):
1 - slightly hazardous to water

15.2. Chemical safety assessment
For the following substances of this mixture a chemical safety assessment has been carried out:
ethanediol; ethylene glycol

SECTION 16: Other information

Changes
Rev. 1.0: Initial release: 29.09.2020
Rev. 2.0: 19.07.2023, Changes in chapter: 2-16

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW: Arbeitsplatzgrenzwert
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of substances and mixtures
DNEL: Derived No Effect Level
d: day(s)
EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European List of Notified Chemical Substances
ECHA: European Chemicals Agency
EWC: European Waste Catalogue
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GeStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
h: hour
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
NLP: No-Longer Polymers
N/A: not applicable
OECD: Organisation for Economic Co-operation and Development
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
REACH: Registration, Evaluation, Authorisation of Chemicals
SVHC: substance of very high concern
TRGS: Technische Regeln für Gefahrstoffe
UN: United Nations
VOC: Volatile Organic Compounds
WGK: Water Hazard Class (Germany)
Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4; H302</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT RE 2; H373</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Relevant H and EUH statements (number and full text)

- H302  Harmful if swallowed.
- H373  May cause damage to organs through prolonged or repeated exposure.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)