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

1.1 Product identifier

ProtectorWax

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

Relevant identified uses of the substance or mixture:
- Drying agent
- Sector of use [SU]:
  - SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
  - SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Chemical product category [PC]:
  - PC31 - Polishes and wax blends
- Process category [PROC]:
  - PROC 7 - Industrial spraying
- Environmental Release Category [ERC]:
  - ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet

Koch-Chemie GmbH, Einsteinstrasse 42, 59423 Unna, Germany
Phone:+49 (0) 2303/9 86 70 - 0, Fax:+49 (0) 2303/9 86 70 - 26
KCU@KOCH-CHEMIE.de, www.KOCH-CHEMIE.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:
+353 (0) 1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)
+353 (0) 1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

Telephone number of the company in case of emergencies:
+49 (0) 700 / 24 112 112 (KCC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

<table>
<thead>
<tr>
<th>Hazard class</th>
<th>Hazard category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr.</td>
<td>1B</td>
<td>H314-Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>Eye Dam.</td>
<td>1</td>
<td>H318-Causes serious eye damage.</td>
</tr>
</tbody>
</table>

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)
Danger

H314-Causes severe skin burns and eye damage.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.
P260-Do not breathe vapours or spray. P280-Wear protective gloves / protective clothing / eye protection / face protection.
P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.
P405-Store locked up.
P501-Dispose of contents / container safely.

Acetic acid
1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)
Siloxanes and silicones, {3-[(2-aminoethyl)amino]propyl}methyl-, dimethyl-

### 2.3 Other hazards
The mixture contains a vPvB substance (vPvB = very persistent, very bioaccumulative).
The mixture contains a PBT substance (PBT = persistent, bioaccumulative, toxic).

### SECTION 3: Composition/information on ingredients

#### 3.1 Substance
n.a.

#### 3.2 Mixture

<table>
<thead>
<tr>
<th>Substance for which an EU exposure limit value applies.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
</tr>
<tr>
<td>Registration number (REACH)</td>
</tr>
<tr>
<td>Index</td>
</tr>
<tr>
<td>EINECS, ELINCS, NLP</td>
</tr>
<tr>
<td>CAS</td>
</tr>
<tr>
<td>content %</td>
</tr>
<tr>
<td>Classification according to Regulation (EC) 1272/2008 (CLP)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

| Siloxanes and silicones, {3-[(2-aminoethyl)amino]propyl}methyl-, dimethyl- |
| Registration number (REACH)                                                   | ---                   |
| Index                                                                       | ---                   |
| EINECS, ELINCS, NLP                                                           | 935-147-8 (REACH-IT List-No.)     |
| CAS                                                                         | ---                   |
SECTION 4: First aid measures

4.1 Description of first aid measures
First-aiders should ensure they are protected!
Never pour anything into the mouth of an unconscious person!

Inhalation
Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.

Skin contact
Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact
Remove contact lenses.
Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.
Protect uninjured eye.
Follow-up examination by an ophthalmologist

**Ingestion**
Rinse the mouth thoroughly with water.
Do not induce vomiting - give copious water to drink. Consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.
Corrosive burns on skin as well as mucous membrane possible.
Risk of serious damage to eyes.
Conjunctivitis
Corneal damage.
Danger of blindness
Ingestion:
pain in the mouth and throat
stomach pain
Oesophageal perforation
Gastric perforation

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

Symptomatic treatment.

---

**SECTION 5: Firefighting measures**

5.1 Extinguishing media

**Suitable extinguishing media**
Water jet spray/foam/CO2/dry extinguisher

**Unsuitable extinguishing media**
None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:
Oxides of carbon
Oxides of nitrogen
Toxic gases

5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.
According to size of fire
Full protection, if necessary.
Dispose of contaminated extinction water according to official regulations.

---

**SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Keep unprotected persons away.
Ensure sufficient supply of air.
Avoid contact with eyes or skin.
If applicable, caution - risk of slipping.

6.2 Environmental precautions
If leakage occurs, dam up.
Resolve leaks if this possible without risk.
Prevent surface and ground-water infiltration, as well as ground penetration.
Prevent from entering drainage system.
If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.
Flush residue using copious water.
6.4 Reference to other sections
For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations
Ensure good ventilation.
Avoid contact with eyes or skin.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Observe directions on label and instructions for use.
Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace
General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities
Keep out of access to unauthorised individuals.
Not to be stored in gangways or stair wells.
Store product closed and only in original packing.
Store at room temperature.

7.3 Specific end use(s)
No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>2-Butoxyethanol</th>
<th>Content %: 25-&lt;50</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA:</td>
<td>25 ppm (123 mg/m³) (WEL), 20 ppm (98 mg/m³) (EU)</td>
<td>WEL-STEL: 50 ppm (246 mg/m³) (WEL, EU) ---</td>
</tr>
<tr>
<td>BMGV:</td>
<td>240 mmol butoxyacetic acid/mol creatinine in urine, post shift (BMGV)</td>
<td>Other information: Skin (WEL)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>2-Butoxyethanol</th>
<th>Content %: 25-&lt;50</th>
</tr>
</thead>
<tbody>
<tr>
<td>OELV-8h:</td>
<td>20 ppm (98 mg/m³) (OELV-8h, EC)</td>
<td>OELV-15min: 50 ppm (246 mg/m³) (OELV-15min, EC) ---</td>
</tr>
<tr>
<td>BLV:</td>
<td>200 mg/g creatinine (Butoxyacetic acid (BAA) in urine, h) (ACGIH-BEI)</td>
<td>Other information: Skin, IOELV</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>2-Butoxyethanol</th>
<th>Content %: 25-&lt;50</th>
</tr>
</thead>
<tbody>
<tr>
<td>OELV-8h:</td>
<td>20 ppm (98 mg/m³) (OELV-8h, UE)</td>
<td>OELV-ST: 50 ppm (246 mg/m³) (OELV-ST, UE) ---</td>
</tr>
<tr>
<td>BMGV:</td>
<td>240 mmol butoxyacetic acid/mol creatinine in urine, post shift (BMGV)</td>
<td>Other information: Skin</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Acetic acid</th>
<th>Content %: 1-&lt;2,5</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA:</td>
<td>10 ppm (25 mg/m³) (WEL, EU)</td>
<td>WEL-STEL: 20 ppm (50 mg/m³) (WEL, EU) ---</td>
</tr>
<tr>
<td>Monitoring procedures:</td>
<td>- Compur - KITA-216 S (549 194)</td>
<td></td>
</tr>
</tbody>
</table>
Chemical Name | Acetic acid
---|---
Content %: | 1-<2.5

OELV-8h: 10 ppm (25 mg/m³) (OELV-8h, EU) | OELV-15min: 15 ppm (37 mg/m³) (OELV-15min), 20 ppm (50 mg/m³) (EU) | ---

Monitoring procedures:
- Compur - KITA-216 S (549 194)
- Draeger - Acetic Acid 5/a (67 22 101)
- OSHA ID-186SG (Acetic acid and formic acid in workplace atmospheres)
- NIOSH 1603 (Acetic acid in workplace atmospheres) - 1994

BLV: --- | Other information: ---

---

Chemical Name | Acetic acid
---|---
Content %: | 1-<2.5

OELV-8h: 10 ppm (25 mg/m³) (OELV-8h, UE) | OELV-ST: 20 ppm (50 mg/m³) (OELV-ST, UE) | ---

Monitoring procedures:
- Compur - KITA-216 S (549 194)
- Draeger - Acetic Acid 5/a (67 22 101)
- OSHA ID-186SG (Acetic acid and formic acid in workplace atmospheres)
- NIOSH 1603 (Acetic acid in workplace atmospheres) - 1994

BLV: --- | Other information: IOELV (OELV-8h) ---

---


** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

---

OELV-ST = Occupational Exposure Limit Value - Short-term (15-minute reference period).


---

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---

---

---
that may arise in the presence of other sulphur compounds. (S.L.424.24), [12] = The mist is defined as the thoracic fraction. (S.L.424.24), [13] = Established in accordance with the Annex to Directive 91/322/EEC. (S.L.424.24), [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV. (S.L.424.24)

8.2 Exposure controls

<table>
<thead>
<tr>
<th>2-Butoxyethanol</th>
<th>Exposure route / Environmental compartment</th>
<th>Effect on health</th>
<th>Descriptor</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment - freshwater</td>
<td>PNEC</td>
<td>8,8</td>
<td>mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - marine</td>
<td>PNEC</td>
<td>0,88</td>
<td>mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, freshwater</td>
<td>PNEC</td>
<td>34,6</td>
<td>mg/kg dw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - soil</td>
<td>PNEC</td>
<td>2,8</td>
<td>mg/kg dw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sewage treatment plant</td>
<td>PNEC</td>
<td>463</td>
<td>mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, marine</td>
<td>PNEC</td>
<td>3,46</td>
<td>mg/kg dw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sporadic (intermittent) release</td>
<td>PNEC</td>
<td>9,1</td>
<td>mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumer Human - dermal</td>
<td>Short term, systemic effects</td>
<td>DNEL</td>
<td>44,5</td>
<td>mg/kg bw/d</td>
<td></td>
</tr>
<tr>
<td>Consumer Human - inhalation</td>
<td>Short term, systemic effects</td>
<td>DNEL</td>
<td>426</td>
<td>mg/m3</td>
<td></td>
</tr>
<tr>
<td>Consumer Human - oral</td>
<td>Short term, systemic effects</td>
<td>DNEL</td>
<td>13,4</td>
<td>mg/kg bw/d</td>
<td></td>
</tr>
<tr>
<td>Consumer Human - inhalation</td>
<td>Short term, local effects</td>
<td>DNEL</td>
<td>123</td>
<td>mg/m3</td>
<td></td>
</tr>
<tr>
<td>Consumer Human - dermal</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>38</td>
<td>mg/kg bw/d</td>
<td></td>
</tr>
<tr>
<td>Consumer Human - inhalation</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>49</td>
<td>mg/m3</td>
<td></td>
</tr>
<tr>
<td>Consumer Human - oral</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>3,2</td>
<td>mg/kg bw/d</td>
<td></td>
</tr>
<tr>
<td>Workers / employees Human - dermal</td>
<td>Short term, systemic effects</td>
<td>DNEL</td>
<td>89</td>
<td>mg/kg bw/d</td>
<td></td>
</tr>
<tr>
<td>Workers / employees Human - inhalation</td>
<td>Short term, systemic effects</td>
<td>DNEL</td>
<td>663</td>
<td>mg/m3</td>
<td></td>
</tr>
<tr>
<td>Workers / employees Human - inhalation</td>
<td>Short term, local effects</td>
<td>DNEL</td>
<td>246</td>
<td>mg/m3</td>
<td></td>
</tr>
<tr>
<td>Workers / employees Human - dermal</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>75</td>
<td>mg/kg bw/d</td>
<td></td>
</tr>
<tr>
<td>Workers / employees Human - inhalation</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>98</td>
<td>mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)</th>
<th>Exposure route / Environmental compartment</th>
<th>Effect on health</th>
<th>Descriptor</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment - freshwater</td>
<td>PNEC</td>
<td>0,017</td>
<td>mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, freshwater</td>
<td>PNEC</td>
<td>1,7</td>
<td>mg/kg dw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - marine</td>
<td>PNEC</td>
<td>0,002</td>
<td>mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, marine</td>
<td>PNEC</td>
<td>0,17</td>
<td>mg/kg dw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sewage treatment plant</td>
<td>PNEC</td>
<td>10</td>
<td>mg/l</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:
Chemical resistant protective gloves (EN 374).
If applicable
Safety gloves made of butyl (EN 374)
Protective nitrile gloves (EN 374)
Protective PVC gloves (EN 374)
Minimum layer thickness in mm:
0.5
Permeation time (penetration time) in minutes:
480
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.
Protective hand cream recommended.

Skin protection - Other:
Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:
If OES or MEL is exceeded.
Gas mask filter A (EN 14387), code colour brown
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
Not applicable

Additional information on hand protection - No tests have been performed.
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls
No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic 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>Orange</td>
</tr>
<tr>
<td>Odour</td>
<td>Fruity</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH-value</td>
<td>4.5</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>n.a.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Lower explosive limit</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper explosive limit</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapour density (air = 1)</td>
<td>0.97 g/ml</td>
</tr>
<tr>
<td>Density</td>
<td>n.a.</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Mixable</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Product is not explosive.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No</td>
</tr>
</tbody>
</table>

9.2 Other information
SECTION 10: Stability and reactivity

10.1 Reactivity
The product has not been tested.

10.2 Chemical stability
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions
No dangerous reactions are known.

10.4 Conditions to avoid
See also section 7.
None known

10.5 Incompatible materials
See also section 7.
Avoid contact with strong alkalis.
Avoid contact with strong oxidizing agents.
Avoid contact with strong acids.

10.6 Hazardous decomposition products
See also section 5.2
No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Possibly more information on health effects, see Section 2.1 (classification).

<table>
<thead>
<tr>
<th>Protector Wax</th>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acute toxicity, by oral route: ATE</td>
<td>&gt;2000</td>
<td>mg/kg</td>
<td></td>
<td></td>
<td>calculated value</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute toxicity, by dermal route: ATE</td>
<td>&gt;2000</td>
<td>mg/kg</td>
<td></td>
<td></td>
<td>calculated value</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute toxicity, by inhalation: ATE</td>
<td>&gt;20</td>
<td>mg/l/4h</td>
<td></td>
<td></td>
<td>calculated value, Vapours</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Serious eye damage/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Respiratory or skin sensitisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Germ cell mutagenicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Carcinogenicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Reproductive toxicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Aspiration hazard:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Symptoms:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
</tbody>
</table>

2-Butoxyethanol

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route: LD50</td>
<td>1746</td>
<td>mg/kg</td>
<td>Rat</td>
<td></td>
<td>OECD 401 (Acute Oral Toxicity)</td>
<td></td>
</tr>
</tbody>
</table>
Acute toxicity, by dermal route:  
LD50 2275 mg/kg Rabbit OECD 402 (Acute Dermal Toxicity) Does not conform with EU classification.

Acute toxicity, by inhalation:  
LC50 2-20 mg/l Rat Regulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORROSION) Skin Irrit. 2, Product removes fat.

Skin corrosion/irritation:  

Serious eye damage/irritation:  
Rabbit OECD 405 (Acute Eye Irritation/Corrosion) Eye Irrit. 2

Respiratory or skin sensitisation:  
Guinea pig OECD 406 (Skin Sensitisation) Not sensitizing

Germ cell mutagenicity:  
Mouse OECD 474 (Mammalian Erythrocyte Micronucleus Test) Negative

Germ cell mutagenicity:  
Salmonella typhimurium OECD 471 (Bacterial Reverse Mutation Test) Negative

Carcinogenicity:  
Rat OECD 451 (Carcinogenicity Studies) Negative

Carcinogenicity:  
NOAEC 125 ppm Mouse OECD 451 (Carcinogenicity Studies) Negative

Aspiration hazard:  
No

Symptoms:  
acidosis, ataxia, breathing difficulties, respiratory distress, drowsiness, unconsciousness, annoyance, coughing, headaches, gastrointestinal disturbances, insomnia, mucous membrane irritation, dizziness

Specific target organ toxicity - repeated exposure (STOT-RE), oral:  
NOAEL <69 mg/kg bw/d Rat OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Specific target organ toxicity - repeated exposure (STOT-RE), dermal:  
NOAEL >150 mg/kg bw/d Rabbit OECD 411 (Subchronic Dermal Toxicity - 90-day Study)

Siloxanes and silicones, {3-[(2-aminoethyl)amino]propyl}methyl-, dimethyl-

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route:</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 402 (Acute Dermal Toxicity)</td>
<td>Analogous conclusion</td>
</tr>
</tbody>
</table>
### Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

**ProtectorWax**

**Revision date / version:** 30.07.2018 / 0009  
**Replacing version dated / version:** 15.06.2018 / 0008  
**Valid from:** 30.07.2018  
**PDF print date:** 15.11.2018

#### Acetic acid

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route:</td>
<td>LD50</td>
<td>3310</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 401 (Acute Oral Toxicity)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td>LD50</td>
<td>&gt;1060</td>
<td>mg/kg</td>
<td>Rabbit</td>
<td>OECD 402 (Acute Dermal Toxicity)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>11,4</td>
<td>mg/l/4h</td>
<td>Rat</td>
<td>OECD 403 (Acute Inhalation Toxicity)</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

**Symptoms:**
- acidosis,
- respiratory distress,
- burning of the membranes of the nose and throat,
- diarrhoea,
- disturbed heart rhythm,
- cornea opacity,
- cramps,
- circulatory collapse,
- stomach cramps,
- shock,
- nausea and vomiting.

#### Octamethylcyclotetrasiloxane

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route:</td>
<td>LD50</td>
<td>4800</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 401 (Acute Oral Toxicity)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td>LD50</td>
<td>&gt;2400</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 402 (Acute Dermal Toxicity)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>36</td>
<td>mg/l/4h</td>
<td>Rat</td>
<td>OECD 403 (Acute Inhalation Toxicity)</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OECD 404 (Acute Dermal Irritation/Corrosion)</td>
<td>Not irritant</td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td>Rabbit</td>
<td></td>
<td></td>
<td></td>
<td>OECD 405 (Acute Eye Irritation/Corrosion)</td>
<td>Not irritant</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td>Guinea pig</td>
<td></td>
<td></td>
<td></td>
<td>OECD 406 (Skin Sensitisation)</td>
<td>Not sensitizising</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td>Salmonella typhimurium</td>
<td></td>
<td></td>
<td></td>
<td>OECD 471 (Bacterial Reverse Mutation Test)</td>
<td>Negative</td>
</tr>
</tbody>
</table>
SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.2. Persistence and degradability:</td>
<td>The surfactant(s) contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB assessment</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.6. Other adverse effects:</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 2-Butoxyethanol

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>1474</td>
<td>mg/l</td>
<td>Oncorhynchus mykiss</td>
<td>OECD 203 (Fish, Acute Toxicity Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>NOEC/NOEL</td>
<td>21d</td>
<td>&gt;100</td>
<td>mg/l</td>
<td>Brachydanio rerio</td>
<td>OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>1490</td>
<td>mg/l</td>
<td>Lepomis macrochirus</td>
<td>OECD 202 (Daphnia sp. Acute Immobilisation Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>1550</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td>OECD 201 (Alga, Growth Inhibition Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>NOEC/NOEL</td>
<td>21d</td>
<td>100</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td>OECD 211 (Daphnia magna Reproduction Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC50</td>
<td>72h</td>
<td>1840</td>
<td>mg/l</td>
<td>Pseudokirchneriella subcapitata</td>
<td>OECD 201 (Alga, Growth Inhibition Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>NOEC/NOEL</td>
<td>72h</td>
<td>286</td>
<td>mg/l</td>
<td>Pseudokirchneriella subcapitata</td>
<td>OECD 201 (Alga, Growth Inhibition Test)</td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td>28d</td>
<td>95</td>
<td>%</td>
<td></td>
<td></td>
<td>OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)</td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td>28d</td>
<td>&gt;99</td>
<td>%</td>
<td></td>
<td></td>
<td>OECD 302 B (Inherent Biodegradability - Zahn-Wells/EMPA Test)</td>
<td></td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>BCF</td>
<td>3,2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>Log Pow</td>
<td>0,83</td>
<td></td>
<td></td>
<td></td>
<td>Negative</td>
<td></td>
</tr>
<tr>
<td>12.4. Mobility in soil:</td>
<td>H (Henry)</td>
<td>0,000000 16 atm*m3/mol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.4. Mobility in soil:</td>
<td>Koc</td>
<td>67</td>
<td></td>
<td></td>
<td></td>
<td>Expert judgement</td>
<td></td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB assessment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No PBT substance, No vPvB substance</td>
</tr>
</tbody>
</table>

**Toxicity to bacteria:**

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC0</td>
<td>16h</td>
<td>700</td>
<td>mg/l</td>
<td>Pseudomonas putida</td>
<td>DIN 38412 T.8</td>
<td></td>
</tr>
</tbody>
</table>
12.1. Toxicity to fish: NOEC/NOEL 35d 0.686 mg/l Pimephales promelas
12.1. Toxicity to algae: NOEC/NOEL 72h 0.39 mg/l Pseudokirchneriella subcapitata OECD 201 (Alga, Growth Inhibition Test) Analogous conclusion
12.1. Toxicity to algae: EC50 72h 1.2 mg/l Pseudokirchneriella subcapitata OECD 201 (Alga, Growth Inhibition Test) Analogous conclusion

### Acetic acid

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>75</td>
<td>mg/l</td>
<td>Lepomis macrochirus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>88</td>
<td>mg/l</td>
<td>Pimephales promelas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>24h</td>
<td>47</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td>EC50</td>
<td>30d</td>
<td>&gt;99</td>
<td>%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>Log Pow</td>
<td>30d</td>
<td>-0.17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>BCF</td>
<td></td>
<td>&lt;1</td>
<td></td>
<td></td>
<td>Not to be expected</td>
<td></td>
</tr>
</tbody>
</table>

12.5. Results of PBT and vPvB assessment

| Toxicity to bacteria: | EC50     | 15min | 11    | mg/l  | Photobacterium phosphoreum      | OECD 301 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test)) | Not readily biodegradable |
| Toxicity to bacteria: | EC50     | 16h   | 2850  | mg/l  | Pseudomonas putida              |                                    |       |
| Other information:    | BOD5     |       | 0.88  | g/g   |                                  |                                    |       |

### Octamethylcyclotetrasiloxane

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.2. Persistence and degradability:</td>
<td>28d</td>
<td>3,7</td>
<td>%</td>
<td></td>
<td>activated sludge</td>
<td>OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test))</td>
<td>Not readily biodegradable</td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>BCF</td>
<td>28d</td>
<td>12400</td>
<td>Pimephales promelas</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**For the substance / mixture / residual amounts**

EC disposal code no.:
The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

16 05 08 discarded organic chemicals consisting of or containing hazardous substances
20 01 99 other fractions not otherwise specified

Recommendation:
Sewage disposal shall be discouraged.
Pay attention to local and national official regulations.
E.g. dispose at suitable refuse site.
E.g. suitable incineration plant.
For contaminated packing material
Pay attention to local and national official regulations.
Empty container completely.
Uncontaminated packaging can be recycled.
Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements
14.1. UN number: 3265

Transport by road/by rail (ADR/RID)
14.2. UN proper shipping name:
UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (AMINO FUNCTIONAL SILOXANE, ACETIC ACID)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Classification code: C3
LQ: 1 L
14.5. Environmental hazards: Not applicable
Tunnel restriction code: E

Transport by sea (IMDG-code)
14.2. UN proper shipping name:
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (AMINO FUNCTIONAL SILOXANE, ACETIC ACID)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
EmS: F-A, S-B
Marine Pollutant: n.a
14.5. Environmental hazards: Not applicable

Transport by air (IATA)
14.2. UN proper shipping name:
Corrosive liquid, acidic, organic, n.o.s. (AMINO FUNCTIONAL SILOXANE, ACETIC ACID)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
14.5. Environmental hazards: Not applicable

14.6. Special precautions for user
Persons employed in transporting dangerous goods must be trained.
All persons involved in transporting must observe safety regulations.
Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Freighted as packaged goods rather than in bulk, therefore not applicable.
Minimum amount regulations have not been taken into account.
Danger code and packing code on request.
Comply with special provisions.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Observe restrictions:
Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!
Octamethylcyclotetrasiloxane
Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!
Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): < 38,5 %
REGULATION (EC) No 648/2004
less than 5 %
cationic surfactants

perfumes

COUMARIN
LINALOOL

15.2 Chemical safety assessment
A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 2, 3, 4, 8, 11, 12, 14, 15

Employee training in handling dangerous goods is required.
These details refer to the product as it is delivered.
Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

<table>
<thead>
<tr>
<th>Classification in accordance with regulation (EC) No. 1272/2008 (CLP)</th>
<th>Evaluation method used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr. 1B, H314</td>
<td>Classification according to calculation procedure.</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>Classification according to calculation procedure.</td>
</tr>
</tbody>
</table>

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).
H314 Causes severe skin burns and eye damage.
H361f Suspected of damaging fertility.
H226 Flammable liquid and vapour.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Skin Corr. — Skin corrosion
Eye Dam. — Serious eye damage
Acute Tox. — Acute toxicity - oral
Eye Irrit. — Eye irritation
Skin Irrit. — Skin irritation
Acute Tox. — Acute toxicity - dermal
Acute Tox. — Acute toxicity - inhalation
Aquatic Chronic — Hazardous to the aquatic environment - chronic
Flam. Liq. — Flammable liquid
Met. Corr. — Substance or mixture corrosive to metals
Repr. — Reproductive toxicity

Any abbreviations and acronyms used in this document:

AC Article Categories
acc., acc. to according, according to
ACGIHAmerican Conference of Governmental Industrial Hygienists
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 30.07.2018 / 0009
Replacing version dated / version: 15.06.2018 / 0008
Valid from: 30.07.2018
PDF print date: 15.11.2018

ProtectorWax

LD Lethal Dose of a chemical
LD50 Lethal Dose, 50% kill
LDLo Lethal Dose Low
LOAEILowest Observed Adverse Effect Level
LOEC Lowest Observed Effect Concentration
LOEL Lowest Observed Effect Level
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
NIOSH National Institute of Occupational Safety and Health (United States of America)
NOAEC No Observed Adverse Effective Concentration
NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration
NOEL No Observed Effect Level
ODP Ozone Depletion Potential
OECD Organisation for Economic Co-operation and Development
org. organic
PAH polycyclic aromatic hydrocarbon
PBT persistent, bioaccumulative and toxic
PC Chemical product category
PE Polyethylene
PNEC Predicted No Effect Concentration
POCP Photochemical ozone creation potential
ppm parts per million
PROC Process category
PTFE Polytetrafluoroethylene
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SADT Self-Accelerating Decomposition Temperature
SAR Structure Activity Relationship
SU Sector of use
SVHC Substances of Very High Concern
Tel. Telephone
ThOD Theoretical oxygen demand
TOC Total organic carbon
TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
WHO World Health Organization
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.

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