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

1.1 Product identifier

   Trade name : ULTRASTAR GX-2561

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

   This information is not available.

1.3 Details of the supplier of the safety data sheet

   Company : ECKART GmbH
   Guentersthal 4
   91235 Hartenstein
   Telephone : +499152770
   Telefax : +499152777008
   E-mail address : msds.eckart@altana.com
   Responsible/issuing person

1.4 Emergency telephone number

   GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
   From outside US: (001) 352-323-3500
   US & Canada (toll free): 1-800-5355-053

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

   Classification (REGULATION (EC) No 1272/2008)
   Flammable liquids, Category 2
   H225: Highly flammable liquid and vapour.
   Serious eye damage, Category 1
   H318: Causes serious eye damage.
   Specific target organ toxicity - single exposure, Category 3
   Central nervous system
   H336: May cause drowsiness or dizziness.

   Classification (67/548/EEC, 1999/45/EC)
   Highly flammable
   R11: Highly flammable.
   Irritant
   R36: Irritating to eyes.
   R67: Vapours may cause drowsiness and dizziness.
   R66: Repeated exposure may cause skin dryness or cracking.
2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:

- Flammable (H225)
- Skin corrosion (H318)
- Hazards to the respiratory system (H336)

Signal word: Danger

Hazard statements:
- H225: Highly flammable liquid and vapour.
- H318: Causes serious eye damage.
- H336: May cause drowsiness or dizziness.

Supplemental Hazard Statements:
- EUH066: Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

Prevention:
- P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P240: Ground/bond container and receiving equipment.
- P261: Avoid breathing vapours.
- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312: Call a POISON CENTER or doctor/ physician if you feel unwell.

Storage:
- P403 + P235: Store in a well-ventilated place. Keep cool.

Disposal:
- P501: Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
- 67-63-0: propan-2-ol

2.3 Other hazards

No information available.
SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Registration number</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>01-2119457558-25</td>
<td>F; R11 Xi; R36 R67</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td>
<td>&gt;= 25 - &lt; 50</td>
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<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>205-500-4</td>
<td></td>
<td>F; R11 F; R11 Xi; R36 Xi; R36 R66 R66 R67</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td>
<td>&gt;= 25 - &lt; 50</td>
</tr>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>01-2119457610-43</td>
<td>F; R11</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319</td>
<td>&gt;= 3 - &lt; 10</td>
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<tr>
<td>butyl glycollate</td>
<td>7397-62-8</td>
<td>230-991-7</td>
<td>01-2119514685-36</td>
<td>R41</td>
<td>Repr. 2; H361 Eye Dam. 1; H318</td>
<td>&gt;= 5 - &lt; 10</td>
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<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>231-072-3</td>
<td></td>
<td>F; R11</td>
<td>Flam. Sol. 1; H228</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>200-662-2</td>
<td></td>
<td>F; R11 Xi; R36 R66 R67</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td>
<td>&gt;= 1 - &lt; 3</td>
</tr>
</tbody>
</table>

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician. 
Show this safety data sheet to the doctor in attendance.

Move the victim to fresh air. 
Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure. 
If unconscious place in recovery position and seek medical advice.

In case of skin contact : If on skin, rinse well with water. 
If on clothes, remove clothes.

Wash off immediately with soap and plenty of water.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness. 
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 
Remove contact lenses. 
Keep eye wide open while rinsing. 
If eye irritation persists, consult a specialist.

Immediately flush eye(s) with plenty of water.

If swallowed : Keep respiratory tract clear. 
Do NOT induce vomiting. 
Do not give milk or alcoholic beverages. 
Never give anything by mouth to an unconscious person. 
If symptoms persist, call a physician. 
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up
Methods for cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections
For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion: Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen). Take
measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

Further information on storage conditions : Protect from humidity and water.

Advice on common storage : Do not store near acids. Do not store together with oxidizing and self-igniting products. Keep away from oxidising agents and strongly acid or alkaline materials. Never allow product to get in contact with water during storage. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>400 ppm 999 mg/m3</td>
<td>2006-09-01</td>
<td>GB EH40</td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>STEL</td>
<td>500 ppm 1,250 mg/m3</td>
<td>2006-09-01</td>
<td>GB EH40</td>
</tr>
<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>TWA</td>
<td>200 ppm</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>STEL</td>
<td>400 ppm</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm 1,920 mg/m3</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>
### Components

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>7429-90-5</td>
<td>TWA (Respirable)</td>
<td>4 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

Further information: The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

<table>
<thead>
<tr>
<th>CAS-No.</th>
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<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

Further information: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for...
limit-setting purposes termed ‘inhalable’ and ‘respirable’. Inhalable
dust approximates to the fraction of airborne material that enters
the nose and mouth during breathing and is therefore available for
deposition in the respiratory tract. Respirable dust approximates
to the fraction that penetrates to the gas exchange region of the
lung. Fuller definitions and explanatory material are given in
MDHS14/3. Where dusts contain components that have their own
assigned WEL, all the relevant limits should be complied
with. Where no specific short-term exposure limit is listed, a figure
three times the long-term exposure should be used.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
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<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
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</thead>
<tbody>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>500 ppm, 1,210 mg/m³</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
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</tbody>
</table>

Further information
Indicative

<table>
<thead>
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<th>Components</th>
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<th>Control parameters</th>
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<th>Basis</th>
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</thead>
<tbody>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>500 ppm, 1,210 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>
### DNEL: propan-2-ol (67-63-0)
- **End Use:** Workers
- **Exposure routes:** Skin contact
- **Potential health effects:** long term – systemic effects
- **Value:** 888 mg/kg

### DNEL: propan-2-ol (67-63-0)
- **End Use:** Workers
- **Exposure routes:** Inhalation
- **Potential health effects:** long term – systemic effects
- **Value:** 500 mg/m³

### DNEL: propan-2-ol (67-63-0)
- **End Use:** Consumers
- **Exposure routes:** Ingestion
- **Potential health effects:** long term – systemic effects
- **Value:** 26 mg/kg

### DNEL: propan-2-ol (67-63-0)
- **End Use:** Consumers
- **Exposure routes:** Skin contact
- **Potential health effects:** long term – systemic effects
- **Value:** 319 mg/kg

### DNEL: propan-2-ol (67-63-0)
- **End Use:** Consumers
- **Exposure routes:** Inhalation
- **Potential health effects:** long term – systemic effects
- **Value:** 89 mg/m³

### DNEL: ethyl acetate (141-78-6)
- **End Use:** Workers
- **Exposure routes:** Inhalation
- **Potential health effects:** short term – local effects
- **Value:** 1468 mg/m³

### DNEL: ethyl acetate (141-78-6)
- **End Use:** Workers
- **Exposure routes:** Inhalation
- **Potential health effects:** short term – systemic effects
- **Value:** 1468 mg/m³
ethyl acetate (141-78-6)  
**End Use:** Workers  
**Exposure routes:** Inhalation  
**Potential health effects:** long term – local effects  
**Value:** 734 mg/m³

**DNEL:**  
ethyl acetate (141-78-6)  
**End Use:** Workers  
**Exposure routes:** Skin contact  
**Potential health effects:** long term – systemic effects  
**Value:** 63 mg/kg

**DNEL:**  
ethyl acetate (141-78-6)  
**End Use:** Workers  
**Exposure routes:** Inhalation  
**Potential health effects:** long term – systemic effects  
**Value:** 734 mg/m³

**DNEL:**  
ethyl acetate (141-78-6)  
**End Use:** Consumers  
**Exposure routes:** Inhalation  
**Potential health effects:** short term – local effects  
**Value:** 734 mg/m³

**DNEL:**  
ethyl acetate (141-78-6)  
**End Use:** Consumers  
**Exposure routes:** Inhalation  
**Potential health effects:** short term – systemic effects  
**Value:** 734 mg/m³

**DNEL:**  
ethyl acetate (141-78-6)  
**End Use:** Consumers  
**Exposure routes:** Inhalation  
**Potential health effects:** long term – local effects  
**Value:** 367 mg/m³

**DNEL:**  
ethyl acetate (141-78-6)  
**End Use:** Consumers  
**Exposure routes:** Skin contact  
**Potential health effects:** long term – systemic effects  
**Value:** 37 mg/kg

**DNEL:**  
ethyl acetate (141-78-6)  
**End Use:** Consumers  
**Exposure routes:** Inhalation  
**Potential health effects:** long term – systemic effects  
**Value:** 367 mg/m³
**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**ULTRASTAR GX-2561**

<table>
<thead>
<tr>
<th>Ethyl Acetate (141-78-6)</th>
<th>End Use: Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Ingestion</td>
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<tr>
<td>Potential health effects: long term – systemic effects</td>
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</tr>
<tr>
<td>Value: 4.5 mg/kg</td>
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**DNEL:**

<table>
<thead>
<tr>
<th>Ethanol (64-17-5)</th>
<th>End Use: Workers</th>
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</thead>
<tbody>
<tr>
<td>Exposure routes: Inhalation</td>
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<tr>
<td>Potential health effects: short term – local effects</td>
<td></td>
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<tr>
<td>Value: 1900 mg/m3</td>
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**DNEL:**

<table>
<thead>
<tr>
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<tr>
<td>Exposure routes: Skin contact</td>
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</tr>
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<td>Potential health effects: long term – systemic effects</td>
<td></td>
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<tr>
<td>Value: 343 mg/kg</td>
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**DNEL:**

<table>
<thead>
<tr>
<th>Ethanol (64-17-5)</th>
<th>End Use: Workers</th>
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<tr>
<td>Exposure routes: Inhalation</td>
<td></td>
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<tr>
<td>Potential health effects: long term – systemic effects</td>
<td></td>
</tr>
<tr>
<td>Value: 950 mg/m3</td>
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</tr>
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**DNEL:**

<table>
<thead>
<tr>
<th>Ethanol (64-17-5)</th>
<th>End Use: Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Inhalation</td>
<td></td>
</tr>
<tr>
<td>Potential health effects: short term – local effects</td>
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<tr>
<td>Value: 950 mg/m3</td>
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**DNEL:**

<table>
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<th>Ethanol (64-17-5)</th>
<th>End Use: Consumers</th>
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<tbody>
<tr>
<td>Exposure routes: Ingestion</td>
<td></td>
</tr>
<tr>
<td>Potential health effects: long term – systemic effects</td>
<td></td>
</tr>
<tr>
<td>Value: 87 mg/kg</td>
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**DNEL:**

<table>
<thead>
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<th>End Use: Consumers</th>
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</thead>
<tbody>
<tr>
<td>Exposure routes: Skin contact</td>
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</tr>
<tr>
<td>Potential health effects: long term – systemic effects</td>
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<tr>
<td>Value: 206 mg/kg</td>
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**DNEL:**

<table>
<thead>
<tr>
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<th>End Use: Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Inhalation</td>
<td></td>
</tr>
<tr>
<td>Potential health effects: long term – systemic effects</td>
<td></td>
</tr>
<tr>
<td>Value: 114 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

---
butyl glycollate (7397-62-8)
End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 34.7 mg/kg

**DNEL:**
butil glycollate (7397-62-8)
End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 21.2 mg/m³

**DNEL:**
butil glycollate (7397-62-8)
End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 2 mg/kg

**DNEL:**
butil glycollate (7397-62-8)
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 20.8 mg/kg

**DNEL:**
butil glycollate (7397-62-8)
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 43.5 mg/m³

**DNEL:**
butil glycollate (7397-62-8)
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – local effects
Value: 43.5 mg/m³

**DNEL:**
butil glycollate (7397-62-8)
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – local effects
Value: 0.28 mg/cm²

**DNEL:**
acetone (67-64-1)
End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 186 mg/kg
<table>
<thead>
<tr>
<th>Substance</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
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<tbody>
<tr>
<td>acetone (67-64-1)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>1210 mg/m³</td>
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<tr>
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<td>acetone (67-64-1)</td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>62 mg/kg</td>
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<td>DNEL:</td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>200 mg/m³</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol (67-63-0)</td>
<td>Soil</td>
<td></td>
<td></td>
<td>28 mg/kg</td>
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<tr>
<td>PNEC:</td>
<td>Fresh water</td>
<td></td>
<td></td>
<td>140.9 mg/l</td>
</tr>
<tr>
<td>propan-2-ol (67-63-0)</td>
<td>Fresh water sediment</td>
<td></td>
<td></td>
<td>552 mg/kg</td>
</tr>
<tr>
<td>PNEC:</td>
<td>Marine water</td>
<td></td>
<td></td>
<td>140.9 mg/l</td>
</tr>
<tr>
<td>propan-2-ol (67-63-0)</td>
<td>Marine sediment</td>
<td></td>
<td></td>
<td>552 mg/kg</td>
</tr>
<tr>
<td>PNEC:</td>
<td>STP</td>
<td></td>
<td></td>
<td>2251 mg/l</td>
</tr>
<tr>
<td>Chemical</td>
<td>Medium</td>
<td>Value</td>
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<td>-----------------</td>
<td>-------------</td>
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<tr>
<td>ethyl acetate (141-78-6)</td>
<td>Soil</td>
<td>0.24 mg/kg</td>
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<td><strong>PNEC:</strong></td>
<td>ethyl acetate (141-78-6)</td>
<td>STP</td>
<td>650 mg/l</td>
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<tr>
<td>ethanol (64-17-5)</td>
<td>Soil</td>
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<td><strong>PNEC:</strong></td>
<td>ethanol (64-17-5)</td>
<td>Fresh water</td>
<td>0.96 mg/l</td>
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<td><strong>PNEC:</strong></td>
<td>ethanol (64-17-5)</td>
<td>Fresh water sediment</td>
<td>3.6 mg/kg</td>
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</tr>
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<td>ethanol (64-17-5)</td>
<td>Marine water</td>
<td>0.79 mg/l</td>
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<td><strong>PNEC:</strong></td>
<td>ethanol (64-17-5)</td>
<td>Marine sediment</td>
<td>2.9 mg/kg</td>
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<tr>
<td>butyl glycollate (7397-62-8)</td>
<td>Soil</td>
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<td>butyl glycollate (7397-62-8)</td>
<td>Sediment</td>
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<td>butyl glycollate (7397-62-8)</td>
<td>STP</td>
<td>232 mg/l</td>
<td></td>
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<td><strong>PNEC:</strong></td>
<td>butyl glycollate (7397-62-8)</td>
<td>Water</td>
<td>0.05 mg/l</td>
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</tr>
</tbody>
</table>
### 8.2 Exposure controls

#### Personal protective equipment

Eye protection
- Eye wash bottle with pure water
- Wear face-shield and protective suit for abnormal processing problems.

- Goggles

Hand protection
- Material: Solvent-resistant gloves (butyl-rubber)

Remarks
- The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Take note of the information given by the producer concerning permeability and breakthrough times, and of special workplace conditions (mechanical strain, duration of contact).
- The exact breakthrough time can be obtained from the protective glove producer and this has to be observed.
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

<table>
<thead>
<tr>
<th>Substance</th>
<th>Environment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone (67-64-1)</td>
<td>Soil</td>
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<td>Fresh water</td>
<td>10.6 mg/l</td>
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<td>Fresh water sediment</td>
<td>30.4 mg/kg</td>
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<td>Marine water</td>
<td>1.06 mg/l</td>
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<tr>
<td>PNEC: acetone (67-64-1)</td>
<td>Marine sediment</td>
<td>3.04 mg/kg</td>
</tr>
</tbody>
</table>
danger of cuts, abrasion, and the contact time. Recommended preventive skin protection
Skin should be washed after contact.
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection: In the case of vapour formation use a respirator with an approved filter.

: Use suitable breathing protection if workplace concentration requires.

Environmental exposure controls

General advice: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

: 

Water: The product should not be allowed to enter drains, water courses or the soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid
Colour: silver
Odour: characteristic
pH: no data available
Freezing point: no data available
SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.
10.4 Conditions to avoid

Conditions to avoid: Heat, flames and sparks.

Do not allow evaporation to dryness.

10.5 Incompatible materials

Materials to avoid:
- Acids
- Bases
- Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products: no data available

Other information: no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

Product
Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product
May cause irreversible eye damage.

Respiratory or skin sensitisation

no data available

Carcinogenicity

no data available
Toxicity to reproduction/fertility
no data available

Reprod.Tox./Development/Teratogenicity
no data available

STOT - single exposure
no data available

STOT - repeated exposure
no data available

Aspiration toxicity
no data available

Further information
Product
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity
no data available

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available
12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
no data available

12.6 Other adverse effects

**Product:**
Additional ecological information : no data available

SECTION 13: Disposal considerations

European Waste Catalogue : 08 03 12 - waste ink containing dangerous substances

13.1 Waste treatment methods

**Product**
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

**Contaminated packaging**
Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

**ADR** : 1210
**IMDG** : 1210
**IATA** : 1210
14.2 Proper shipping name

   ADR : PRINTING INK
   IMDG: PRINTING INK
   IATA: PRINTING INK

14.3 Transport hazard class

   ADR : 3
   IMDG: 3
   IATA: 3

14.4 Packing group

   ADR
   Packaging group : II
   Classification Code : F1
   Hazard identification No : 33
   Labels : 3
   Tunnel restriction code : (D/E)

   IMDG
   Packaging group : II
   Labels : 3
   EmS Number : F-E, S-D

   IATA
   Packing instruction (cargo aircraft) : 364
   Packing instruction (passenger aircraft) : 353
   Packing instruction (LQ) : Y341
   Packaging group : II
   Labels : 3

14.5 Environmental hazards

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
   no data available
SECTION 15: Regulatory information

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

no data available

15.2 Chemical Safety Assessment

no data available

SECTION 16: Other information

Full text of R-Phrases

R11     Highly flammable.
R36     Irritating to eyes.
R41     Risk of serious damage to eyes.
R66     Repeated exposure may cause skin dryness or cracking.
R67     Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H225     Highly flammable liquid and vapour.
H228     Flammable solid.
H318     Causes serious eye damage.
H319     Causes serious eye irritation.
H336     May cause drowsiness or dizziness.
H361     Suspected of damaging fertility or the unborn child.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.