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

1.1 Product identifier

Trade name: ULTRASTAR FPG GX-72800 Silver
Material number: 021650FY0

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 of person responsible for the SDS: msds.eckart@altana.com

1.4 Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
From outside US: (001) 352-323-3500
(First call in English, response in your language is possible)
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
Serious eye damage, Category 1
Specific target organ toxicity - single exposure, Category 3, Central nervous system

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

Classification (67/548/EEC, 1999/45/EC)

Highly flammable
Irritant

R11: Highly flammable.
R36: Irritating to eyes.
R66: Repeated exposure may cause skin dryness or cracking.
2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms:

![Hazard Pictograms]

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233: Keep container tightly closed.
- P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P280: Wear protective gloves/ eye protection/ face protection.

**Response:**

- P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
- P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

- 141-78-6 ethyl acetate
- 67-63-0 isopropanol
- 34451-19-9 butyl (S)-2-hydroxypropionate
- 67-63-0 propan-2-ol
- 67-64-1 acetone

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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>ethyl acetate</td>
<td>141-78-6</td>
<td>205-500-4</td>
<td>01-2119475103-46</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;= 30 - &lt; 50</td>
</tr>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td></td>
<td>F; R11</td>
<td>Flam. Liq. 2; H225, Eye Irrit. 2; H319</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>isopropanol</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td></td>
<td>F; R11, Xi; R36, R67</td>
<td>Flam. Liq. 2; H225, Eye Irrit. 2; H319, STOT SE 3; H336</td>
<td>&gt;= 15 - &lt; 20</td>
</tr>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>231-072-3</td>
<td></td>
<td>F; R11</td>
<td>Flam. Sol. 1; H228</td>
<td>&gt;= 1 - &lt; 10</td>
</tr>
<tr>
<td>butyl (S)-2-hydroxypropionate</td>
<td>34451-19-9</td>
<td>252-036-3</td>
<td>Xi; Xi; R38, Xi; Xi; R41</td>
<td>Eye Dam. 1; H318, Skin Irrit. 2; H315</td>
<td>&gt;= 3 - &lt; 5</td>
<td></td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td></td>
<td>F; R11, Xi; R36, R67</td>
<td>Flam. Liq. 2; H225, Eye Irrit. 2; H319, STOT SE 3; H336</td>
<td>&gt;= 1 - &lt; 3</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.

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General advice**: Move the victim to fresh air. Do not leave the victim unattended.
- Move out of dangerous area.
- Consult a physician.
- Show this safety data sheet to the doctor in attendance.

**If inhaled**: Consult a physician after significant exposure.
- If unconscious place in recovery position and seek medical advice.
In case of skin contact: Wash off immediately with soap and plenty of water.
If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact: Immediately flush eye(s) with plenty of water.
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.

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
Suitable extinguishing media: Dry sand
Special powder against metal fire

Unsuitable extinguishing media: ABC powder
Carbon dioxide (CO2)
Water
Foam

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 firefighting 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. 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.

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 material for containment and cleaning up

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

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). Do not flush with water.

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.
### SAFETY DATA SHEET

**ULTRASTAR FPG GX-72800 Silver**

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date</th>
<th>MSDS Number</th>
<th>Print Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>02.06.2015</td>
<td>102000023119</td>
<td>19.11.2018</td>
</tr>
</tbody>
</table>

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**

- 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.

  - 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.

**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.
- 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

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>TWA</td>
<td>200 ppm</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>400 ppm</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>GB EH40</td>
</tr>
<tr>
<td>isopropanol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>400 ppm / 999 mg/m³</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>500 ppm / 1,250 mg/m³</td>
<td>GB EH40</td>
</tr>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</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>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable)</td>
<td>4 mg/m³</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>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</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.

### 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>Substance</th>
<th>TWA (Respirable)</th>
<th>STEL</th>
<th>GB EH40</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>400 ppm</td>
<td>999 mg/m(^3) GB EH40</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>500 ppm</td>
<td>1,250 mg/m(^3) GB EH40</td>
<td></td>
</tr>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>1,210 mg/m(^3) GB EH40</td>
</tr>
<tr>
<td>Further information</td>
<td>Indicative</td>
<td></td>
<td>2000/39/EC</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>500 ppm</td>
<td>1,210 mg/m(^3) GB EH40</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,500 ppm</td>
<td>3,620 mg/m(^3) GB EH40</td>
<td></td>
</tr>
</tbody>
</table>

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

<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>ethyl acetate</td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>1468 mg/m(^3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 1468 mg/m³
End Use: Workers

Exposure routes: Inhalation
Potential health effects: long term – local effects
Value: 734 mg/m³
End Use: Workers

Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 63 mg/kg
End Use: Workers

Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 734 mg/m³
End Use: Consumers

Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 734 mg/m³
End Use: Consumers

Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 734 mg/m³
End Use: Consumers

Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 734 mg/m³
End Use: Consumers

Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 734 mg/m³
End Use: Consumers

Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 367 mg/m³
End Use: Consumers

Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 37 mg/kg
End Use: Consumers

Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 367 mg/m³
End Use: Consumers

Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 4.5 mg/kg
End Use: Workers

ethanol (64-17-5)

Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 1900 mg/m³
End Use: Workers

Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 343 mg/kg
End Use: Workers

Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 950 mg/m³
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 950 mg/m³
End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 87 mg/kg
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 206 mg/kg
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 114 mg/m³
End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 888 mg/kg
End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 500 mg/m³
End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 26 mg/kg
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 319 mg/kg
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 89 mg/m³
End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 888 mg/kg
End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 500 mg/m³
End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 26 mg/kg
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 319 mg/kg
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 89 mg/m³

acetone (67-64-1) : End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 186 mg/kg
End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 1210 mg/m³
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 62 mg/kg
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 62 mg/kg
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 200 mg/m³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

ethyl acetate (141-78-6) : Soil
Value: 0.148 mg/kg
STP
Value: 650 mg/l
Fresh water
Value: 0.24 mg/l
Marine water
Value: 0.024 mg/l
Fresh water sediment
Value: 1.15 mg/kg
Marine sediment
Value: 0.115 mg/kg

ethanol (64-17-5) : Soil
Value: 0.63 mg/kg
Fresh water
Value: 0.96 mg/l
Fresh water sediment
Value: 3.6 mg/kg
Marine water
Value: 0.79 mg/l
Marine sediment
Value: 2.9 mg/kg
STP
Value: 580 mg/l
propan-2-ol (67-63-0) : Soil
   Value: 28 mg/kg
   Fresh water
   Value: 140.9 mg/l
   Fresh water sediment
   Value: 552 mg/kg
   Marine water
   Value: 140.9 mg/l
   Marine sediment
   Value: 552 mg/kg
   STP
   Value: 2251 mg/l

propan-2-ol (67-63-0) : Soil
   Value: 28 mg/kg
   Fresh water
   Value: 140.9 mg/l
   Fresh water sediment
   Value: 552 mg/kg
   Marine water
   Value: 140.9 mg/l
   Marine sediment
   Value: 552 mg/kg
   STP
   Value: 2251 mg/l

acetone (67-64-1) : Soil
   Value: 29.5 mg/kg
   Fresh water
   Value: 10.6 mg/l
   Fresh water sediment
   Value: 30.4 mg/kg
   Marine water
   Value: 1.06 mg/l
   Marine sediment
   Value: 3.04 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Goggles

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

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

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special
workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and break-through 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 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 workplace.

Respiratory protection: Use suitable breathing protection if workplace concentration requires.

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

Environmental exposure controls
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>silver</td>
</tr>
<tr>
<td>Odour</td>
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<td>pH</td>
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<td>Freezing point</td>
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<td>Boiling point/boiling range</td>
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<td>Flash point</td>
<td>-4 °C</td>
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<tr>
<td>Evaporation rate</td>
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<td>Flammability (solid, gas)</td>
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<tr>
<td>Upper explosion limit</td>
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<tr>
<td>Lower explosion limit</td>
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<td>Vapour pressure</td>
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</tr>
<tr>
<td>Relative vapour density</td>
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</tr>
<tr>
<td>Relative density</td>
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</tr>
<tr>
<td>Density</td>
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<tr>
<td>Bulk density</td>
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</tr>
<tr>
<td>Water solubility</td>
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<tr>
<td>Solubility in other solvents</td>
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<td>Partition coefficient: n-octanol/water</td>
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</table>
9.2 Other information
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.
Stable under recommended storage conditions.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Conditions to avoid: Do not allow evaporation to dryness.
Heat, flames and sparks.

10.5 Incompatible materials
Materials to avoid: Acids
Bases
Oxidizing agents

10.6 Hazardous decomposition products
Contact with water or humid air: This information is not available.
Thermal decomposition: This information is not available.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

141-78-6:
Acute inhalation toxicity: LC50 (Rat): 56 mg/l
Exposure time: 4 h

Acute dermal toxicity: LD50 (Rabbit): > 18,000 mg/kg

64-17-5:
Acute oral toxicity: LD50 (Mouse): 3,450 mg/kg
LD50 (Rat): 7,060 mg/kg
LD50 (Rabbit): 6,300 mg/kg

Acute inhalation toxicity: LC50 (Rat): 20,000 mg/l
Exposure time: 4 h

Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kg

67-63-0:
Acute oral toxicity: LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity: LC50 (Rat): > 20 mg/l
Exposure time: 8 h

Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation

Product:
Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product:
Remarks: May cause irreversible eye damage.

Further information

Product:
Remarks: 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.
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according to Regulation (EC) No. 1907/2006

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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

Product: Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product: Additional ecological information : Remarks: No data available

SECTION 13: Disposal considerations

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 : UN 1263
ULTRASTAR FPG GX-72800 Silver

14.2 UN proper shipping name

ADR : PAINT
IMDG : PAINT
IATA : Paint

14.3 Transport hazard class(es)

ADR : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR
Packaging group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Tunnel restriction code : (D/E)

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

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

14.5 Environmental hazards

ADR
Environmentally hazardous : no

IMDG
Marine pollutant : no

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.
SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

15.2 Chemical Safety Assessment

This information is not available.

SECTION 16: Other information

Full text of R-Phrases

R11: Highly flammable.
R36: Irritating to eyes.
R38: Irritating to skin.
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.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Full text of other abbreviations

Eye Dam.: Serious eye damage
Eye Irrit.: Eye irritation
Flam. Liq.: Flammable liquids
Flam. Sol.: Flammable solids
Skin Irrit.: Skin irritation
STOT SE: Specific target organ toxicity - single exposure

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.

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