SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

ROTOSTAR UV FPG 78304 Silver

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

1.1 Product identifier
   Trade name : ROTOSTAR UV FPG 78304 Silver
   Material number : 023189HW0

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: (First call in English, response in your language is possible)
   US & Canada (toll free) : (001) 352-323-3500
   1-800-5355-053

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   Classification (REGULATION (EC) No 1272/2008)
   Skin irritation, Category 2  H315: Causes skin irritation.
   Eye irritation, Category 2  H319: Causes serious eye irritation.
   Skin sensitisation, Category 1  H317: May cause an allergic skin reaction.
   Chronic aquatic toxicity, Category 2  H411: Toxic to aquatic life with long lasting effects.
   
   Classification (67/548/EEC, 1999/45/EC)
   Irritant  R36: Irritating to eyes.
   Dangerous for the environment  R51/53: Toxic to aquatic organisms, may cause
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long-term adverse effects in the aquatic environment.

Irritant
R43: May cause sensitisation by skin contact.

Sensitising
:

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word :
Warning

Hazard statements :
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :
Prevention:
P280 Wear protective gloves.
Response:
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
28961-43-5 Propylidynetrimethanol, ethoxylated, esters with acrylic acid
52408-84-1 Glycerol, propoxylated, esters with acrylic acid
15625-89-5 2,2-bis(acryloyloxyethyl)butyl acrylate

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.
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SECTION 3: Composition/information on ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Description</th>
<th>Classification</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylidynetrimethanol, ethoxylated, esters with acrylic acid</td>
<td>28961-43-5</td>
<td>Xi; Xi; R36-R43</td>
<td>Eye Irrit. 2; H319</td>
<td>Skin Sens. 1; H317</td>
<td>&gt;= 25 - &lt; 50</td>
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<tr>
<td></td>
<td>500-066-5</td>
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</tr>
<tr>
<td></td>
<td>01-2119499900-30</td>
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<tr>
<td>2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methylloxirane and oxirane</td>
<td>144086-02-2</td>
<td>Xi; R36; N; R51/53</td>
<td>Eye Irrit. 2A; H319</td>
<td>Aquatic Chronic 2; H411</td>
<td>&gt;= 25 - &lt; 50</td>
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<tr>
<td></td>
<td>604-394-0</td>
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<td></td>
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<td>01-2119979050-40</td>
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<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>F; R11</td>
<td>Flam. Sol. 1; H228</td>
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<td>&gt;= 1 - &lt; 10</td>
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<tr>
<td></td>
<td>231-072-3</td>
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<td></td>
<td>01-2119529243-45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol, propoxylated, esters with acrylic acid</td>
<td>52408-84-1</td>
<td>Xi; Xi; R36</td>
<td>Eye Irrit. 2; H319</td>
<td>Skin Sens. 1; H317</td>
<td>&gt;= 1 - &lt; 10</td>
</tr>
<tr>
<td></td>
<td>500-114-5</td>
<td>Xi; R43</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>01-2119487948-12</td>
<td></td>
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<tr>
<td>dodecylphosphonic acid</td>
<td>5137-70-2</td>
<td>C; R34</td>
<td>Skin Corr. 1B; H314</td>
<td>Eye Dam. 1; H318</td>
<td>&gt;= 1 - &lt; 3</td>
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<tr>
<td></td>
<td>225-897-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,2-bis(acryloyloxymethyl)butyl acrylate</td>
<td>15625-89-5</td>
<td>Xi; R36/38 R43</td>
<td>Skin Irrit. 2; H315</td>
<td>Eye Irrit. 2; H319</td>
<td>&gt;= 0.1 - &lt; 1</td>
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<tr>
<td></td>
<td>239-701-3</td>
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<td>01-2119498986-11</td>
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<td></td>
<td></td>
<td></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.
Show this safety data sheet to the doctor in attendance.

If inhaled: If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.

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.
- Immediately flush eye(s) with plenty of water.
- Remove contact lenses.
- Keep eye wide open while rinsing.
- If eye irritation persists, consult a specialist.

If swallowed:
- Keep respiratory tract clear.
- Do not give milk or alcoholic beverages.
- Never give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.

### 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
- ABC powder
- Foam

**Unsuitable extinguishing media**:
- High volume water jet

### 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.

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.

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). Do not flush with water. Keep in suitable, closed containers for disposal.

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: Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

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.

- 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. 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 oxidizing 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 (Version Date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>GB EH40 (2011-12-01)</td>
</tr>
<tr>
<td>Further information</td>
<td>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/m³ 8-hour TWA of inhalable dust or 4 mg/m³ 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</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>TWA (Respirable)</td>
<td>4 mg/m³</td>
<td>GB EH40 (2011-12-01)</td>
</tr>
<tr>
<td>Further information</td>
<td>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/m³ 8-hour TWA of inhalable dust or 4 mg/m³ 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</td>
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</tr>
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<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>GB EH40 (2005-04-06)</td>
</tr>
<tr>
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</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. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

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<th>7429-90-5</th>
<th>TWA (inhalable dust)</th>
<th>10 mg/m³</th>
<th>GB EH40 (2011-12-01)</th>
</tr>
</thead>
</table>

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<table>
<thead>
<tr>
<th>aluminium powder (stabilised)</th>
<th>7429-90-5</th>
<th>TWA (Respirable dust)</th>
<th>4 mg/m³</th>
<th>GB EH40 (2011-12-01)</th>
</tr>
</thead>
</table>

Further information

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<table>
<thead>
<tr>
<th>Substance name</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)</td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>0.8 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>16.2 mg/m3</td>
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<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>0.5 mg/kg</td>
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<tr>
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<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>4.9 mg/m3</td>
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<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>1.4 mg/kg</td>
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<tr>
<td>2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloloxirane and oxirane (144086-02-2)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>5.87 mg/m3</td>
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<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>3.33 mg/kg</td>
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<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>1.45 mg/m3</td>
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<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>1.67 mg/kg</td>
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<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>0.83 mg/kg</td>
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<tr>
<td>aluminium (7429-90-5)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
<td>3.72 mg/m3</td>
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<td>Consumers</td>
<td>Oral</td>
<td>long term – systemic effects</td>
<td>3.95 mg/kg</td>
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<tr>
<td>Glycerol, propoxylated, esters with acrylic acid (52408-84-1)</td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>1.92 mg/kg</td>
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<tr>
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<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>16.22 mg/m3</td>
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<tr>
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<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>1.39 mg/kg</td>
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<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>1.15 mg/kg</td>
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<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>4.87 mg/m3</td>
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<tr>
<td>2-ethyl-2-[(1-oxoallyl)oxy]methyl]-</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>16.2 mg/m3</td>
</tr>
</tbody>
</table>
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1,3-propanediyl diacrylate (15625-89-5)

| Consumers | Ingestion | long term – systemic effects | 1.39 mg/kg |
| Consumers | Inhalation | long term – systemic effects | 4.9 mg/m³ |

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

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)</td>
<td>Soil</td>
<td>0.00587 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Fresh water</td>
<td>0.00195 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>0.0082 mg/kg</td>
</tr>
<tr>
<td></td>
<td>STP</td>
<td>10 mg/l</td>
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<tr>
<td></td>
<td>Marine water</td>
<td>0.000195 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>0.00082 mg/kg</td>
</tr>
<tr>
<td>2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane (144086-02-2)</td>
<td>Fresh water</td>
<td>0.0079 mg/l</td>
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<td>Marine water</td>
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<td>Fresh water sediment</td>
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<tr>
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<td>Marine sediment</td>
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<tr>
<td></td>
<td>Soil</td>
<td>0.0192 mg/kg</td>
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<tr>
<td>aluminium (7429-90-5)</td>
<td>Fresh water</td>
<td>0.0749 mg/l</td>
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<tr>
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<td>clarification plant</td>
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<td>Glycerol, propoxylated, esters with acrylic acid (52408-84-1)</td>
<td>Soil</td>
<td>0.00111 mg/kg</td>
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<tr>
<td></td>
<td>Fresh water</td>
<td>0.00574 mg/l</td>
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<tr>
<td></td>
<td>Fresh water sediment</td>
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<tr>
<td></td>
<td>Marine water</td>
<td>0.000574 mg/l</td>
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<tr>
<td></td>
<td>Marine sediment</td>
<td>0.001697 mg/kg</td>
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<tr>
<td></td>
<td>STP</td>
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</tr>
<tr>
<td>2-ethyl-2-[[1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate (15625-89-5)</td>
<td>Soil</td>
<td>0.0043 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Fresh water</td>
<td>0.00147 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>0.0062 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0.000147 mg/l</td>
</tr>
</tbody>
</table>
8.2 Exposure controls

**Personal protective equipment**

Eye protection: Goggles

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 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 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

Use suitable breathing protection if workplace concentration requires.

**Environmental exposure controls**

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

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**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

- **Appearance**: liquid
- **Colour**: silver
- **Odour**: characteristic
- **Odour Threshold**: No data available
- **pH**: No data available
- **Freezing point**: No data available
- **Boiling point/boiling range**: > 100 °C
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

ROTOSTAR UV FPG 78304 Silver

Version: 1.0  Revision Date: 19.05.2017  SDS Number: 102000026477  Print Date: 19.11.2018
Date of first issue: 19.05.2017

Flash point : > 100 °C

Evaporation rate : No data available
Flammability (solid, gas) : No data available
Auto-flammability : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Relative density : No data available
Density : No data available
Bulk density : No data available
Solubility(ies)
  Water solubility : insoluble
  Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Ignition temperature : No data available
Decomposition temperature : No data available
Viscosity
  Viscosity, dynamic : No data available
  Viscosity, kinematic : > 21 mm²/s (40 °C)

Flow time : No data available
Explosive properties : No data available
Oxidizing properties : No data available

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.

10.4 Conditions to avoid
Conditions to avoid : Do not allow evaporation to dryness.

No data available

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:
7429-90-5:
Acute inhalation toxicity: LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Skin corrosion/irritation

Product:
Remarks: May cause skin irritation and/or dermatitis.

Components:
28961-43-5:
Remarks: May cause skin irritation and/or dermatitis.

144086-02-2:
Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product:
Remarks: Eye irritation

Components:
28961-43-5:
Remarks: May cause irreversible eye damage.

144086-02-2:
Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

Product:
Remarks: Causes sensitisation.

**Components:**

28961-43-5:
Remarks: Causes sensitisation.

**Further information**

**Product:**
Remarks: No data available

**Components:**

28961-43-5:
Remarks: No data available

144086-02-2:
Remarks: No data available

**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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

**Components:**

28961-43-5:
SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. In accordance with local and national regulations.

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. In accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN number

ADR: UN 3082
IMDG: UN 3082
IATA: UN 3082

14.2 UN proper shipping name

ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkoxylated Pentaerythritol Tetraacrylate)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkoxylated Pentaerythritol Tetraacrylate)
IATA: Environmentally hazardous substance, liquid, n.o.s. (Alkoxylated Pentaerythritol Tetraacrylate)

14.3 Transport hazard class(es)

ADR: 9
IMDG: 9
IATA: 9
14.4 Packing group

ADR
Packing group: III
Classification Code: M6
Hazard Identification Number: 90
Labels: 9

IMDG
Packing group: III
Labels: 9
EmS Number: F-A,S-F

IATA
Packing instruction (cargo aircraft): 964
Packing instruction (passenger aircraft): 964
Packing instruction (LQ): Y964
Packing group: III
Labels: Miscellaneous Dangerous Goods

14.5 Environmental hazards

ADR
Environmentally hazardous: yes

IMDG
Marine pollutant: yes

14.6 Special precautions for user

Remarks: For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

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. |
| R34 | Causes burns. |
| R36 | Irritating to eyes. |
| R36/38 | Irritating to eyes and skin. |
| R43 | May cause sensitisation by skin contact. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Full text of H-Statements

| H228 | Flammable solid. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |

Full text of other abbreviations

- Aquatic Chronic: Chronic aquatic toxicity
- Eye Dam: Serious eye damage
- Eye Irrit: Eye irritation
- Flam. Sol: Flammable solids
- Skin Corr: Skin corrosion
- Skin Irrit: Skin irritation
- Skin Sens: Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of...
### Further information

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.