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

ROTOSTAR GX 81-41005 Silver  

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

1.1 Product identifier  
Trade name : ROTOSTAR GX 81-41005 Silver  
Material number : 053455FY0  

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  
H225: Highly flammable liquid and vapour.  
Eye irritation, Category 2  
H319: Causes serious eye irritation.  

Classification (67/548/EEC, 1999/45/EC)  
Highly flammable  
R11: Highly flammable.  
Irritant  
R36: Irritating to eyes.  
R67: Vapours may cause drowsiness and dizziness.
2.2 Labelling elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms: ![Flammable and Corrosive Icons]

Signal word: Danger

Hazard statements:
- **H225**: Highly flammable liquid and vapour.
- **H319**: Causes serious eye irritation.

Precautionary statements:
**Prevention:**
- **P210**: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- **P233**: Keep container tightly closed.

**Response:**
- **P303 + P361 + P353**: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- **P337 + P313**: If eye irritation persists: Get medical advice/ attention.
- **P370 + P378**: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

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

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>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration (% w/w)</th>
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</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>F; R11</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319</td>
<td>&gt;= 50 - &lt;= 100</td>
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<tr>
<td></td>
<td>200-578-6</td>
<td>01-2119457610-43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>isopropanol</td>
<td>67-63-0</td>
<td>F; R11</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319</td>
<td>&gt;= 10 - &lt; 20</td>
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<tr>
<td></td>
<td>200-661-7</td>
<td>01-2119457558-25</td>
<td>STOT SE 3; H336</td>
<td></td>
</tr>
<tr>
<td>aluminium powder</td>
<td>7429-90-5</td>
<td>F; R11</td>
<td>Flam. Sol. 1; H228</td>
<td>&gt;= 1 - &lt; 10</td>
</tr>
</tbody>
</table>
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according to Regulation (EC) No. 1907/2006  

**ROTOSTAR GX 81-41005 Silver**  

**Version** | **Revision Date:** | **SDS Number:** | **Print Date:** | **Date of first issue:**  
--- | --- | --- | --- | ---  
1.1 | 09.01.2017 | 102000022897 | 20.11.2018 | 06.05.2015  

| (stabilised) | 231-072-3 |  
|  | 01-2119529243-45 |  

|  
| ethyl acetate | 141-78-6 |  
|  | 205-500-4 |  
|  | 01-2119475103-46 |  
|  
| F; R11 | Xi; R36 |  
| R66 | R67 |  
|  
| Flam. Liq. 2; H225 | Eye Irrit. 2; H319 | STOT SE 3; H336 | >= 3 - < 10 |  

|  
| butyl lactate | 34451-19-9 |  
|  | 205-316-4 |  
|  
| Xi; Xi; R38 | Xi; Xi; R41 |  
|  
| Eye Irrit. 2; H319 | Skin Irrit. 2; H315 | >= 1 - < 3 |  

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.  

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**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: Water

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. 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. 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. 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.

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## 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>
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</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>GB EH40 (2005-04-06)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1,920 mg/m³</td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>isopropanol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>400 ppm</td>
<td>GB EH40 (2006-09-01)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>999 mg/m³</td>
<td></td>
</tr>
<tr>
<td>isopropanol</td>
<td>67-63-0</td>
<td>STEL</td>
<td>500 ppm</td>
<td>GB EH40 (2006-09-01)</td>
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<td></td>
<td></td>
<td></td>
<td>1,250 mg/m³</td>
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</tr>
<tr>
<td>aluminium powder</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>(stabilised)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>aluminium powder</td>
<td>7429-90-5</td>
<td>TWA (Respirable)</td>
<td>4 mg/m³</td>
<td>GB EH40 (2011-12-01)</td>
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<td>(stabilised)</td>
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</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></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/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.
aluminium powder (stabilised) | 7429-90-5 | TWA (Inhalable) | 10 mg/m³ | GB EH40 (2005-04-06)
--- | --- | --- | --- | ---
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.

aluminium powder (stabilised) | 7429-90-5 | TWA (Respirable) | 4 mg/m³ | GB EH40 (2005-04-06)
--- | --- | --- | --- | ---
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.
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<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA (Respirable dust)</th>
<th>STEL</th>
<th>GB EH40</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td></td>
<td>GB EH40 (2011-12-01)</td>
</tr>
<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>200 ppm</td>
<td>GB EH40 (2005-04-06)</td>
</tr>
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<td>ethyl acetate</td>
<td>141-78-6</td>
<td>400 ppm</td>
<td>GB EH40 (2005-04-06)</td>
</tr>
<tr>
<td>butyl lactate</td>
<td>34451-19-9, 138-22-7</td>
<td>5 ppm</td>
<td>GB EH40 (2005-04-06)</td>
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<td>Further information</td>
<td>30 mg/m³</td>
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<tr>
<td>Further information</td>
<td>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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</tbody>
</table>
### SAFETY DATA SHEET

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**ROTOSTAR GX 81-41005 Silver**

<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>ethanol (64-17-5)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>1900 mg/m³</td>
</tr>
<tr>
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<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>343 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>950 mg/m³</td>
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<tr>
<td>Consumers</td>
<td>Inhalation</td>
<td>short term –</td>
<td>local effects</td>
<td>950 mg/m³</td>
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<tr>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term –</td>
<td>systemic effects</td>
<td>87 mg/kg</td>
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<td>Consumers</td>
<td>Skin contact</td>
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<td>systemic effects</td>
<td>206 mg/kg</td>
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<tr>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term –</td>
<td>systemic effects</td>
<td>114 mg/m³</td>
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<tr>
<td>propan-2-ol (67-63-0)</td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
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</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
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<td>500 mg/m³</td>
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<tr>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term –</td>
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<td>Consumers</td>
<td>Skin contact</td>
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<td>systemic effects</td>
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<td>Inhalation</td>
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<td>aluminium (7429-90-5)</td>
<td>Workers</td>
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<td>3.72 mg/m³</td>
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<td>Oral</td>
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<td>systemic effects</td>
<td>3.95 mg/kg</td>
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<td>ethyl acetate (141-78-6)</td>
<td>Workers</td>
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<td>1468 mg/m³</td>
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<td>short term – systemic effects</td>
<td>1468 mg/m³</td>
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<td></td>
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<td>Inhalation</td>
<td>long term – local effects</td>
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<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>63 mg/kg</td>
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<td>long term – systemic effects</td>
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<td>local</td>
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<td>---------------------------</td>
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<td>ethanol (64-17-5)</td>
<td>Soil</td>
<td>0.63 mg/kg</td>
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<td>Fresh water</td>
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<td>Fresh water sediment</td>
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<td>Marine water</td>
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<td>Marine sediment</td>
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<td>STP</td>
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<td>Fresh water</td>
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<td>Fresh water sediment</td>
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<tr>
<td></td>
<td>Marine water</td>
<td>140.9 mg/l</td>
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<td></td>
<td>Marine sediment</td>
<td>552 mg/kg</td>
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<tr>
<td></td>
<td>STP</td>
<td>2251 mg/l</td>
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<td>aluminium (7429-90-5)</td>
<td>Fresh water</td>
<td>0.0749 mg/l</td>
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<td>clarification plant</td>
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<td>STP</td>
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<td>Fresh water</td>
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<td>Marine water</td>
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<td></td>
<td>Fresh water sediment</td>
<td>1.15 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>0.115 mg/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 8.2 Exposure controls

**Personal protective equipment**

Eye protection: Goggles
**SAFETY DATA SHEET**
according to Regulation (EC) No. 1907/2006

**ROTOSTAR GX 81-41005 Silver**

**Version** 1.1  
**Revision Date:** 09.01.2017  
**SDS Number:** 102000022897  
**Print Date:** 20.11.2018  
**Date of first issue:** 06.05.2015

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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 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**

<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>
<td>characteristic</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>78 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>-4 °C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

ROTOSTAR GX 81-41005 Silver

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, dynamic: No data available
Viscosity, kinematic: No data available
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.
  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:

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

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

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

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

Skin corrosion/irritation

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

Components:
34451-19-9:
Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product:
Remarks: May cause irreversible eye damage.
Components:
34451-19-9:
Remarks: May cause irreversible eye damage.

Further information

Product:
Remarks: Solvents may degrease the skin.

Components:
34451-19-9:
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: No data available

Components:
34451-19-9:
Additional ecological information : Remarks: 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: UN 1210
IMDG: UN 1210
IATA: UN 1210

14.2 UN proper shipping name

ADR: PRINTING INK
IMDG: PRINTING INK
IATA: Printing ink

14.3 Transport hazard class(es)

ADR: 3
IMDG: 3
IATA: 3

14.4 Packing group

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

IMDG
Packing 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
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.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Full text of other abbreviations
Eye Irrit.: Eye irritation
Flam. Liq.: Flammable liquids
Flam. Sol.: Flammable solids
Skin Irrit.: Skin irritation
STOT SE: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Railway; IMDG - International Maritime Dangerous Goods Code
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.

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