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

Sample Agent Zinc Dust Primer Spray 92 17-07009

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

1.1 Product identifier
   Trade name: Sample Agent Zinc Dust Primer Spray 92 17-07009
   Product code: 08135607Z

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.
   Skin irritation, Category 2
   H315: Causes skin irritation.
   Specific target organ toxicity - repeated exposure, Category 2
   H373: May cause damage to organs through prolonged or repeated exposure.
   Aspiration hazard, Category 1
   H304: May be fatal if swallowed and enters airways.
   Short-term (acute) aquatic hazard, Category 1
   H400: Very toxic to aquatic life.
   Long-term (chronic) aquatic hazard
   H410: Very toxic to aquatic life with long lasting effect.
Category 1 effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Signal word: Danger

Hazard statements:
- H225: Highly flammable liquid and vapour.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233: Keep container tightly closed.
- P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Response:
- P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331: Do NOT induce vomiting.
- P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Additional Labelling:

EUH208: Contains Fatty acids, tall-oil, reaction products with diethylenetriamine compds. with polyethylene glycol hydrogen maleate C9-11-alkyl ether. May produce an allergic reaction.

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.
### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>zinc powder - zinc dust (stabilised)</strong></td>
<td>7440-66-6</td>
<td>Aquatic Acute 1; H400</td>
<td>&gt;= 50 - &lt;= 100</td>
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<tr>
<td></td>
<td>231-175-3</td>
<td>Aquatic Chronic 1; H410</td>
<td></td>
</tr>
<tr>
<td></td>
<td>030-001-01-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>01-2119467174-37</td>
<td></td>
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</tr>
<tr>
<td><strong>xylene</strong></td>
<td>1330-20-7</td>
<td>Flam. Liq. 3; H226</td>
<td>&gt;= 10 - &lt; 12.5</td>
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<tr>
<td></td>
<td>215-535-7</td>
<td>Acute Tox. 4; H332</td>
<td></td>
</tr>
<tr>
<td></td>
<td>601-022-00-9</td>
<td>Acute Tox. 4; H312</td>
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<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2; H315</td>
<td></td>
</tr>
<tr>
<td><strong>solvent naphtha (petroleum), light arom.</strong></td>
<td>64742-95-6</td>
<td>Flam. Liq. 3; H226</td>
<td>&gt;= 2.5 - &lt; 10</td>
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<tr>
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<td>918-668-5</td>
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<td></td>
<td>01-2119455851-35</td>
<td>Acute Tox. 4; H312</td>
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<tr>
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<td></td>
<td>Skin Irrit. 2; H315</td>
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</tr>
<tr>
<td><strong>zinc oxide</strong></td>
<td>1314-13-2</td>
<td>Aquatic Acute 1; H400</td>
<td>&gt;= 2.5 - &lt; 10</td>
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<td></td>
<td>215-222-5</td>
<td>Aquatic Chronic 1; H410</td>
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<tr>
<td></td>
<td>030-013-00-7</td>
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</tr>
<tr>
<td></td>
<td>01-2119463881-32</td>
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<tr>
<td><strong>ethylbenzene</strong></td>
<td>100-41-4</td>
<td>Flam. Liq. 2; H225</td>
<td>&gt;= 1 - &lt; 10</td>
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<td>601-023-00-4</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Asp. Tox. 1; H304</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT RE 2; H373</td>
<td></td>
</tr>
<tr>
<td><strong>acetone</strong></td>
<td>67-64-1</td>
<td>Flam. Liq. 2; H225</td>
<td>&gt;= 1 - &lt; 10</td>
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<tr>
<td></td>
<td>200-662-2</td>
<td>Eye Irrit. 2; H319</td>
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<tr>
<td></td>
<td>606-001-00-8</td>
<td>STOT SE 3; H336</td>
<td></td>
</tr>
<tr>
<td><strong>Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha</strong></td>
<td>64742-82-1</td>
<td>Flam. Liq. 3; H226</td>
<td>&gt;= 1 - &lt; 2.5</td>
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<tr>
<td></td>
<td>265-185-4</td>
<td>Acute Tox. 4; H332</td>
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<td>649-330-00-2</td>
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<tr>
<td></td>
<td>01-2119458049-33</td>
<td>Acute Tox. 4; H332</td>
<td></td>
</tr>
<tr>
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<td>Asp. Tox. 1; H304</td>
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<td></td>
<td></td>
<td>STOT RE 1; H372</td>
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<td></td>
<td>STOT SE 3; H336</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Chronic 2; H411</td>
<td></td>
</tr>
<tr>
<td><strong>Fatty acids, tall-oil, reaction products with diethylenetriamine compds. with polyethylene glycol hydrogen maleate C9-11-alkyl ether</strong></td>
<td>1262797-52-3</td>
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<tr>
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<td></td>
<td>Aquatic Acute 1; H400</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Chronic 1; H410</td>
<td></td>
</tr>
<tr>
<td><strong>Fatty acids, tall-oil, reaction products with diethylenetriamine</strong></td>
<td>61790-69-0</td>
<td>Acute Tox. 4; H302</td>
<td>&gt;= 0.1 - &lt; 0.25</td>
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<td></td>
<td>283-160-2</td>
<td>Skin Corr. 1B; H314</td>
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<tr>
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<td></td>
<td>STOT RE 2; H373</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Acute 1; H400</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Chronic 1; H410</td>
<td></td>
</tr>
</tbody>
</table>
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. Symptoms of poisoning may appear several hours later.

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.
Flush eyes with water as a precaution. 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

Risks: May be fatal if swallowed and enters airways. Causes skin irritation. May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not 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.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: 
- 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).

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling
Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
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
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.

Further information on storage stability: No decomposition if stored and applied as directed.

7.3 Specific end use(s)
This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc powder - zinc dust (stabilised)</td>
<td>7440-66-6</td>
<td>GV (Dust)</td>
<td>0,5 mg/m3</td>
<td>DK OEL</td>
</tr>
<tr>
<td>Further information</td>
<td>List of limit values for dust. Limit values for dust have been established for concentrations of total dust and for concentrations of respirable dust. Except for wood dust, Arbejdstilsynet has not established a limit value for inhalable dust (DS/EN 481 on inhalable dust).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td>GV (Respirable dust)</td>
<td>5 mg/m3</td>
<td>DK OEL</td>
<td></td>
</tr>
</tbody>
</table>

Further information:
- List of limit values for dust. Limit values for dust have been established for concentrations of total dust and for concentrations of respirable dust. Except for wood dust, Arbejdstilsynet has not established a limit value for inhalable dust (DS/EN 481 on inhalable dust).
- GV (Dust) | 10 mg/m3 | DK OEL |
- Further information:
  - List of limit values for dust. Limit values for dust have been established for concentrations of total dust and for concentrations of respirable dust. Except for wood dust, Arbejdstilsynet has not established a limit value for inhalable dust (DS/EN 481 on inhalable dust).
  - GV (Total dust) | 3 mg/m3 | DK OEL |

Further information:
- List of limit values for dust. Limit values for dust have been established for concentrations of total dust and for concentrations of respirable dust. Except for wood dust, Arbejdstilsynet has not established a limit value for inhalable dust (DS/EN 481 on inhalable dust).
- xylene | 1330-20-7 | TWA | 50 ppm | 2000/39/EC |
- Further information: Identifies the possibility of significant uptake through the skin, Indicative.

Further information on...
### Further information

Identifies the possibility of significant uptake through the skin. Indicative

<table>
<thead>
<tr>
<th>STEL</th>
<th>100 ppm</th>
<th>442 mg/m³</th>
<th>2000/39/EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>GV</td>
<td>25 ppm</td>
<td>109 mg/m³</td>
<td>DK OEL</td>
</tr>
</tbody>
</table>

### Further information

Means that the substance can be absorbed through the skin. Guiding list of organic solvents. The substance has an EC-limit value

<table>
<thead>
<tr>
<th>STEL</th>
<th>100 ppm</th>
<th>442 mg/m³</th>
<th>2000/39/EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>GV (Fumes)</td>
<td>4 mg/m³</td>
<td>(Zinc)</td>
<td>DK OEL</td>
</tr>
<tr>
<td>GV (Fumes)</td>
<td>4 mg/m³</td>
<td>(Zinc)</td>
<td>DK OEL</td>
</tr>
</tbody>
</table>

### Further information

Identifies the possibility of significant uptake through the skin. Indicative

<table>
<thead>
<tr>
<th>STEL</th>
<th>100 ppm</th>
<th>442 mg/m³</th>
<th>2000/39/EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>GV</td>
<td>50 ppm</td>
<td>217 mg/m³</td>
<td>DK OEL</td>
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</tbody>
</table>

### Further information

Means that the substance can be absorbed through the skin. Means that the substance is included in the list of substances considered carcinogenic. Guiding list of organic solvents. The substance has an EC-limit value

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

<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>zinc powder - zinc dust (stabilised)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>83 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>0.83 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>83 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>2.5 mg/m³</td>
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<tr>
<td>xylene</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>221 mg/m³</td>
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<td>Workers</td>
<td>Inhalation</td>
<td>short term – systemic effects</td>
<td>442 mg/m³</td>
</tr>
<tr>
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<td>Workers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
<td>221 mg/m³</td>
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<tr>
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<td>Workers</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>442 mg/m³</td>
</tr>
<tr>
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<td>Long Term Effects</td>
<td>212 mg/kg</td>
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<tr>
<td>----------------------</td>
<td>-------------</td>
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</tr>
<tr>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>65,3 mg/m3</td>
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<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>65,3 mg/m3</td>
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<td>Consumers</td>
<td>Inhalation</td>
<td>short term – systemic effects</td>
<td>260 mg/m3</td>
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<td>Inhalation</td>
<td>long term – local effects</td>
<td>65,3 mg/m3</td>
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<tr>
<td>Consumers</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>260 mg/m3</td>
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<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>125 mg/kg</td>
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<td>long term – systemic effects</td>
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<td>Zinc oxide</td>
<td>Workers</td>
<td>Inhalation</td>
<td>5 mg/m3</td>
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<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>33 mg/kg</td>
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<tr>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>33 mg/kg</td>
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<td>Inhalation</td>
<td>long term – systemic effects</td>
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<td>Ingestion</td>
<td>long term – systemic effects</td>
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<tr>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
<td>0,5 mg/m3</td>
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<td>Acetone</td>
<td>Workers</td>
<td>Skin contact</td>
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<td>Workers</td>
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<td>long term – systemic effects</td>
<td>1210 mg/m3</td>
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<tr>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>62 mg/kg</td>
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</tr>
<tr>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>62 mg/kg</td>
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</tr>
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<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
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<td>Workers</td>
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<td>short term – local effects</td>
<td>2420 mg/m3</td>
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<td>long term – systemic effects</td>
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<td>Ingestion</td>
<td>long term – systemic effects</td>
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<tr>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>26 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>71 mg/m3</td>
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</tr>
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</table>
### 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>zinc powder - zinc dust (stabilised)</td>
<td>Fresh water</td>
<td>0,0206 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>117.8 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0,0061 mg/l</td>
</tr>
<tr>
<td></td>
<td>Soil</td>
<td>35.6 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>56.5 mg/kg</td>
</tr>
<tr>
<td>xylene</td>
<td>Fresh water</td>
<td>0,327 mg/l</td>
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<tr>
<td></td>
<td>Marine water</td>
<td>0,327 mg/l</td>
</tr>
<tr>
<td></td>
<td>STP</td>
<td>6,58 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>12,46 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>12,46 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Soil</td>
<td>2,31 mg/kg</td>
</tr>
<tr>
<td>zinc oxide</td>
<td>Fresh water</td>
<td>0,0206 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0,0061 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>117.8 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>56.5 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Soil</td>
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<tr>
<td></td>
<td>STP</td>
<td>0,1 mg/l</td>
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<tr>
<td>acetone</td>
<td>Soil</td>
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<td></td>
<td>Fresh water</td>
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<td></td>
<td>Marine water</td>
<td>1,06 mg/l</td>
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<td></td>
<td>Marine sediment</td>
<td>3,04 mg/kg</td>
</tr>
<tr>
<td></td>
<td>STP</td>
<td>100 mg/l</td>
</tr>
</tbody>
</table>

#### 8.2 Exposure controls

**Personal protective equipment**

- **Eye protection**: Goggles
  - Safety glasses

- **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
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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.
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

Appearance: liquid
Colour: No data available
Odour: characteristic
Odour Threshold: No data available
pH: No data available
Freezing point: No data available
Boiling point/boiling range: 137 °C
Flash point: < 21 °C
Evaporation rate: No data available
Flammability (solid, gas): No data available
Self-ignition: No data available
Auto-ignition temperature: No data available
Smoldering temperature: No data available
Decomposition temperature: No data available
Explosive properties : No data available
Oxidizing properties : No data available
Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Relative density : No data available
Density : ca. 2.2 g/cm³
Bulk density : No data available
Water solubility : No data available
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Decomposition temperature : No data available
Viscosity
  Viscosity, dynamic : see user defined free text
  Viscosity, kinematic :
Flow time : 11 - 14 s at 20 °C
  Cross section: 4 mm
  Method: DIN 53211

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.

No decomposition if stored and applied as directed.

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
Not classified based on available information.

Product:
Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:
zinc powder -zinc dust (stabilised):
Acute oral toxicity : (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5,41 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

**xylene:**
Acute oral toxicity : LD50 (Rat): 8.700 mg/kg
Acute inhalation toxicity : LC50 (Rat): 6.350 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : Acute toxicity estimate: 1.100 mg/kg
Method: Converted acute toxicity point estimate

Assessment: The component/mixture is moderately toxic after single contact with skin.

**solvent naphtha (petroleum), light arom.:**
Acute oral toxicity : LD50 (Rat): 3.492 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 3.160 mg/kg

**ethylbenzene:**
Acute oral toxicity : LD50 (Rat): 3.500 mg/kg
Acute dermal toxicity : LD50 (Rabbit): 5.000 mg/kg

**acetone:**
Acute oral toxicity : LD50 (Rabbit): 4.700 - 5.800 mg/kg
(Mouse): 3.000 mg/kg
(Rat): 9.800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 76 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

**Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:**
Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

**Fatty acids, tall-oil, reaction products with diethylenetriamine:**
Acute oral toxicity
- Assessment: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation
- Causes skin irritation.

**Product:**
- Remarks: May cause skin irritation in susceptible persons.

**Components:**
- **xylene:**
  - Result: Skin irritation

- **acetone:**
  - Remarks: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

**Fatty acids, tall-oil, reaction products with diethylenetriamine:**
- Result: Causes burns.

**Serious eye damage/eye irritation**
- Not classified based on available information.

**Product:**
- Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Components:**
- **acetone:**
  - Remarks: Severe eye irritation

**Fatty acids, tall-oil, reaction products with diethylenetriamine:**
- Result: No eye irritation

**Respiratory or skin sensitisation**

**Skin sensitisation**
- Not classified based on available information.

**Respiratory sensitisation**
- Not classified based on available information.

**Components:**
- **Fatty acids, tall-oil, reaction products with diethylenetriamine compds. with polyethylene glycol hydrogen maleate C9-11-alkyl ether:**
  - Result: May cause sensitisation by skin contact.
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Germ cell mutagenicity
Not classified based on available information.

Components:
Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:
Germ cell mutagenicity-Assessment: Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Carcinogenicity
Not classified based on available information.

Components:
Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:
Carcinogenicity - Assessment: Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
Not classified based on available information.

Components:
solvent naphtha (petroleum), light arom.: Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:
Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Components:
Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:
Assessment: Causes damage to organs through prolonged or repeated exposure.

Fatty acids, tall-oil, reaction products with diethylenetriamine:
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
Aspiration toxicity
May be fatal if swallowed and enters airways.

Components:
solvent naphtha (petroleum), light arom.:
May be fatal if swallowed and enters airways.

Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:
May be fatal if swallowed and enters airways.

Further information

Product:
Remarks: Solvents may degrease the skin.

Components:

zinc powder -zinc dust (stabilised):
Remarks: No data available

zinc oxide:
Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

zinc powder -zinc dust (stabilised):

Ecotoxicology Assessment
Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

solvent naphtha (petroleum), light arom.:

Ecotoxicology Assessment
Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

acetone:
Toxicity to daphnia and other aquatic invertebrates: (Daphnia magna (Water flea)): 21.600 mg/l

Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:

Ecotoxicology Assessment
Long-term (chronic) aquatic hazard: Toxic to aquatic life with long lasting effects.

Fatty acids, tall-oil, reaction products with diethylenetriamine compds. with polyethylene glycol hydrogen maleate C9-11-alkyl ether:

Ecotoxicology Assessment
Short-term (acute) aquatic hazard: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard: Very toxic to aquatic life with long lasting effects.

Fatty acids, tall-oil, reaction products with diethylenetriamine:

Ecotoxicology Assessment
Short-term (acute) aquatic hazard: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard: Very toxic to aquatic life with long lasting effects.

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

**Components:**

**zinc powder - zinc dust (stabilised):**
Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

**zinc oxide:**
Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations**

European Waste Catalogue: 08 01 11 - waste paint and varnish containing organic solvents or other 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. Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

**SECTION 14: Transport information**

14.1 UN number

ADR: UN 1263
IMDG: UN 1263
IATA: UN 1263

14.2 UN proper shipping name

ADR: PAINT (. Zinc powder, stabilized)
IMDG : PAINT
    (Zinc powder, stabilized)
IATA : Paint

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 Code : F-E, S-E

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

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

14.5 Environmental hazards

ADR
    Environmentally hazardous : yes

IMDG
    Marine pollutant : yes

14.6 Special precautions for user
Not applicable

14.7 Transport in bulk according to Annex II of Marpol 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

Volatile organic compounds: Directive 2004/42/EC
Volatile organic compounds (VOC) content: 23.92 %, 526.2 g/l

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.
H226 : Flammable liquid and vapour.
H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H312 : Harmful in contact with skin.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H332 : Harmful if inhaled.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H372 : Causes damage to organs through prolonged or repeated exposure.
H373 : May cause damage to organs through prolonged or repeated exposure.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.: Acute toxicity
Aquatic Acute: Short-term (acute) aquatic hazard
Aquatic Chronic: Long-term (chronic) aquatic hazard
Asp. Tox.: Aspiration hazard
Eye Irrit.: Eye irritation
Flam. Liq.: Flammable liquids
Skin Corr.: Skin corrosion
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitisation
STOT RE: Specific target organ toxicity - repeated exposure
STOT SE: Specific target organ toxicity - single exposure
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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