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 Gefahrung 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
Category 1 effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:
- Flammable
- Explosive
- Toxics
- Aquatic toxicity

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.

Hazardous components which must be listed on the label:
- Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified ethylbenzene
- Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha

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>EC-No.</th>
<th>Index-No.</th>
<th>Registration number</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
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<tbody>
<tr>
<td>zinc powder - zinc dust (stabilised)</td>
<td>7440-66-6</td>
<td>231-175-3</td>
<td>030-001-01-9</td>
<td>01-2119467174-37</td>
<td>Aquatic Acute 1;</td>
<td>&gt;= 50 - &lt;= 100</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H400 Aquatic Chronic 1; H410</td>
<td></td>
</tr>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>601-022-00-9</td>
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<td>Flam. Liq. 3; H226</td>
<td>&gt;= 10 - &lt; 12.5</td>
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<td>Acute Tox. 4; H332</td>
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<td>Acute Tox. 4; H312</td>
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<td>Skin Irrit. 2; H315</td>
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<tr>
<td>solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>918-668-5</td>
<td>01-2119455851-35</td>
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<td>STOT SE 3; H336</td>
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<td></td>
<td>STOT SE 3; H335</td>
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</tr>
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<td>215-222-5</td>
<td>030-013-00-7</td>
<td>01-2119463881-32</td>
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<td>H400 Aquatic Chronic 1; H410</td>
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<td>ethylbenzene</td>
<td>100-41-4</td>
<td>202-849-4</td>
<td>601-023-00-4</td>
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<tr>
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<td></td>
<td>Acute Tox. 4; H332</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2; H373</td>
<td></td>
</tr>
<tr>
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<td>Asp. Tox. 1; H304</td>
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<td>acetone</td>
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<td>Eye Irrit. 2; H319</td>
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<tr>
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<td>STOT SE 3; H336</td>
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</tr>
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<td>Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha</td>
<td>64742-82-1</td>
<td>265-185-4</td>
<td>649-330-00-2</td>
<td>01-2119458049-33</td>
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<td>STOT SE 3; H336</td>
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<td>STOT RE 1; H372</td>
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<td>Asp. Tox. 1; H304</td>
<td></td>
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<td>Aquatic Chronic 2;</td>
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</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>H411</td>
<td></td>
</tr>
<tr>
<td>Fatty acids, tall oil, reaction products with diethylenetriamine compds. with polyethylene glycol hydrogen maleate C9-11-alkyl ether</td>
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<td>Skin Sens. 1; H317</td>
<td>&gt;= 0.25 - &lt; 1</td>
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<td>Aquatic Acute 1;</td>
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</tr>
<tr>
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<td>H400 Aquatic Chronic 1; H410</td>
<td></td>
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<tr>
<td>Fatty acids, tall oil, reaction products with diethylenetriamine</td>
<td>61790-69-0</td>
<td>263-160-2</td>
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<td>Acute Tox. 4; H302</td>
<td>&gt;= 0.1 - &lt; 0.25</td>
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<td>Skin Corr. 1B; H314</td>
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<tr>
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<td></td>
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<td>STOT RE 2; H373</td>
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<td>Aquatic Acute 1;</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td>H400 Aquatic Chronic 1;</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

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc powder - zinc dust</td>
<td>7440-66-6</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>GB EH40</td>
</tr>
<tr>
<td>(stabilised)</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/m³-3 8-hour TWA of inhalable dust or 4 mg/m³-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>TWA</td>
<td>50 ppm</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>220 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Further information:
Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.
Further information | STEL | 100 ppm 441 mg/m³ | GB EH40
--- | --- | --- | ---
Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

Further information | TWA | 50 ppm 221 mg/m³ | 2000/39/EC
Further information | STEL | 100 ppm 442 mg/m³ | 2000/39/EC
Further information | STEL | 200 ppm 884 mg/m³ | 2000/39/EC
Further information | TWA | 100 ppm 441 mg/m³ | GB EH40
Further information | STEL | 125 ppm 552 mg/m³ | GB EH40
Further information | TWA | 500 ppm 1,210 mg/m³ | 2000/39/EC
Further information | STEL | 1,500 ppm 3,620 mg/m³ | GB EH40

### Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Sampling time</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>methyl hippuric acid: 650 Millimoles per mole Creatinine (Urine)</td>
<td>After shift</td>
<td>GB EH40 BAT</td>
</tr>
</tbody>
</table>

### 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>-------------------</td>
<td>-----------------------------</td>
<td>------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>83 mg/kg</td>
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</tr>
<tr>
<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>
</tr>
<tr>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – systemic effects</td>
<td>442 mg/m³</td>
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</tr>
<tr>
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<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>
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<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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<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>
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<td>125 mg/kg</td>
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<tr>
<td>zinc oxide</td>
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<td>5 mg/m³</td>
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<td>Workers</td>
<td>Skin contact</td>
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<td>83 mg/kg</td>
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<tr>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
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<tr>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>2.5 mg/m³</td>
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<td>Consumers</td>
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<td>0.5 mg/m³</td>
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<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>200 mg/m³</td>
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</table>
Workers | Inhalation | short term – local effects | 2420 mg/m³
--- | --- | --- | ---
Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha | Workers | Skin contact | long term – systemic effects | 44 mg/kg

Workers | Inhalation | long term – systemic effects | 330 mg/m³

Consumers | Ingestion | long term – systemic effects | 26 mg/kg

Consumers | Skin contact | long term – systemic effects | 26 mg/kg

Consumers | Inhalation | long term – systemic effects | 71 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>
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<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>
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<tr>
<td></td>
<td>Soil</td>
<td>35.6 mg/kg</td>
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<td></td>
<td>Marine sediment</td>
<td>56.5 mg/kg</td>
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<tr>
<td>xylene</td>
<td>Fresh water</td>
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<td>Marine water</td>
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<td>STP</td>
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<td>Fresh water sediment</td>
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<td>Marine sediment</td>
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<td>Marine sediment</td>
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<tr>
<td></td>
<td>Soil</td>
<td>35.6 mg/kg</td>
</tr>
<tr>
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<td>STP</td>
<td>0.1 mg/l</td>
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<tr>
<td>zinc oxide</td>
<td>Fresh water</td>
<td>0.0206 mg/l</td>
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<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>
<td>35.6 mg/kg</td>
</tr>
<tr>
<td></td>
<td>STP</td>
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<td>Marine water</td>
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<td>Marine sediment</td>
<td>3.04 mg/kg</td>
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<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 washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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

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

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

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

Sample Agent Zinc Dust Primer Spray 92 17-07009

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Print Date:</th>
<th>Date of first issue:</th>
</tr>
</thead>
</table>

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

Sample Agent Zinc Dust Primer Spray 92 17-07009

Version 4.2  Revision Date: 19.12.2018  SDS Number: 102000000099  Print Date: 24.12.2018
Date of first issue: 05.06.2014

(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.

**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:

carcinogenic: 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

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<th>IMDG</th>
<th>IATA</th>
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<tbody>
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14.2 UN proper shipping name

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<th>IATA</th>
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<tbody>
<tr>
<td>PAINT (Zinc powder, stabilized)</td>
<td>PAINT (Zinc powder, stabilized)</td>
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14.3 Transport hazard class(es)

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14.4 Packing group

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<td>Hazard Identification Number</td>
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<td>EmS Code</td>
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<td>(D/E)</td>
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SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Sample Agent Zinc Dust Primer Spray 92 17-07009

Version 4.2 Revision Date: 19.12.2018 SDS Number: 10200000099 Print Date: 24.12.2018

Date of first issue: 05.06.2014

Labels : Flammable Liquids

IATA (Passenger)
Packing instruction : 353
(passenger aircraft)
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).
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.
Sample Agent Zinc Dust Primer Spray 92 17-07009

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
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT : UK. Biological monitoring guidance values
2000/39/EC / TWA : Limit Value - eight hours
2000/39/EC / STEL : Short term exposure limit
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

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
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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 Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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.