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

Sample Agent Zincdust Spray L 750 ml 14-07011

Version 4.1        Revision Date: 19.12.2018
SDS Number: 102000005098   Print Date: 24.12.2018
Date of first issue: 25.03.2014

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

1.1 Product identifier

Trade name: Sample Agent Zincdust Spray L 750 ml 14-07011

Product code: 08817607Z

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
Guentertal 4
91235 Hartenstein

Telephone: +49 9152770

Telefax: +49 915277008

E-mail address of person responsible for the SDS: msds.eckart@altana.com

1.4 Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
From outside US: (First call in English, response in your language is possible)
US & Canada (toll free)

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
From outside US: (First call in English, response in your language is possible)
US & Canada (toll free)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

|-----------------------------------------------|------------------------------------------|

- Flammable liquids, Category 2

- Eye irritation, Category 2

- Specific target organ toxicity - single exposure, Category 3, Central nervous system

- Specific target organ toxicity - repeated exposure, Category 2

- Long-term (chronic) aquatic hazard, Category 2

<table>
<thead>
<tr>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>H319: Causes serious eye irritation.</th>
</tr>
</thead>
</table>

- Specific target organ toxicity - single exposure, Category 3, Central nervous system

- Specific target organ toxicity - repeated exposure, Category 2

- Long-term (chronic) aquatic hazard, Category 2

<table>
<thead>
<tr>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>H336: May cause drowsiness or dizziness.</th>
</tr>
</thead>
</table>

- Specific target organ toxicity - single exposure, Category 3, Central nervous system

- Specific target organ toxicity - repeated exposure, Category 2

- Long-term (chronic) aquatic hazard, Category 2

<table>
<thead>
<tr>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>H373: May cause damage to organs through prolonged or repeated exposure.</th>
</tr>
</thead>
</table>

- Specific target organ toxicity - single exposure, Category 3, Central nervous system

- Specific target organ toxicity - repeated exposure, Category 2

- Long-term (chronic) aquatic hazard, Category 2

<table>
<thead>
<tr>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>H411: Toxic to aquatic life with long lasting effects.</th>
</tr>
</thead>
</table>

- Specific target organ toxicity - single exposure, Category 3, Central nervous system

- Specific target organ toxicity - repeated exposure, Category 2

- Long-term (chronic) aquatic hazard, Category 2
2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Signal word : Danger

Hazard statements : 
- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : Prevention:
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Classification REGULATION (EC)</th>
<th>Concentration (%) w/w</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Index-No. Registration number</td>
<td>No</td>
<td>1272/2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------</td>
<td>----</td>
<td>-----------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>acetone</td>
<td>67-64-1 200-662-2 606-001-00-8</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td>
<td>&gt;= 20 - &lt; 25</td>
<td></td>
</tr>
<tr>
<td>zinc powder -zinc dust (stabilised)</td>
<td>7440-66-6 231-175-3 030-001-01-9 01-2119467174-37</td>
<td>Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td>
<td>&gt;= 10 - &lt; 20</td>
<td></td>
</tr>
<tr>
<td>solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6 918-668-5 01-2119455851-35</td>
<td>Flam. Liq. 3; H226 STOT SE 3; H336 STOT SE 3; H335 Asp. Tox. 1; H304 Aquatic Chronic 2; H411</td>
<td>&gt;= 10 - &lt; 20</td>
<td></td>
</tr>
<tr>
<td>xylene</td>
<td>1330-20-7 215-535-7 601-022-00-9</td>
<td>Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315</td>
<td>&gt;= 1 - &lt; 10</td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha</td>
<td>64742-82-1 265-185-4 649-330-00-2 01-2119458049-33</td>
<td>Flam. Liq. 3; H226 STOT SE 3; H336 STOT RE 1; H372 Asp. Tox. 1; H304 Aquatic Chronic 2; H411</td>
<td>&gt;= 2.5 - &lt; 10</td>
<td></td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4 202-849-4 601-023-00-4</td>
<td>Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304</td>
<td>&gt;= 1 - &lt; 10</td>
<td></td>
</tr>
<tr>
<td>zinc oxide</td>
<td>1314-13-2 215-222-5 030-013-00-7 01-2119463881-32</td>
<td>Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td>
<td>&gt;= 1 - &lt; 2.5</td>
<td></td>
</tr>
<tr>
<td>Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates</td>
<td>68308-64-5 269-662-8</td>
<td>Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400</td>
<td>&gt;= 0.25 - &lt; 1</td>
<td></td>
</tr>
</tbody>
</table>

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

General advice: Move the victim to fresh air. Do not leave the victim unattended. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
If inhaled
  Consult a physician after significant exposure.
  If unconscious, place in recovery position and seek medical advice.

In case of skin contact
  Wash off immediately with soap and plenty of water.
  If skin irritation persists, call a physician.
  If on skin, rinse well with water.
  If on clothes, remove clothes.

In case of eye contact
  Immediately flush eye(s) with plenty of water.
  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.
  Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed
Risks
  Causes serious eye irritation.
  May cause drowsiness or dizziness.
  May cause damage to organs through prolonged or repeated exposure.
  Repeated exposure may cause skin dryness or cracking.

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 medium: 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 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.

Further information on:
- No decomposition if stored and applied as directed.
SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
</tr>
<tr>
<td>Limestone</td>
</tr>
</tbody>
</table>

Further information

For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed ‘inhalable’ and ‘respirable’. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.
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<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA</th>
<th>STEL</th>
<th>GB EH40</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td>500 ppm, 1,210 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>zinc powder -zinc dust (stabilised)</td>
<td>10 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>xylene</td>
<td>50 ppm, 220 mg/m³</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.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.
Further information: Identifies the possibility of significant uptake through the skin. Indicative

**xylene**

<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>acetone</td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>186 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>1210 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>62 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>62 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>200 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>2420 mg/m3</td>
</tr>
<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</td>
<td>0.83 mg/kg</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td>Soil</td>
<td>29.5 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Fresh water</td>
<td>10.6 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>30.4 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>1.06 mg/l</td>
</tr>
<tr>
<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>
<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>
</tr>
<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>
</tbody>
</table>

**Effects**

| Consumers | Skin contact | long term – systemic effects | 83 mg/kg |
| 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 |
| 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 | 2.5 mg/m3|
| Consumers | Ingestion    | long term – systemic effects | 0.83 mg/kg|
| Workers   | Inhalation   | long term – local effects    | 0.5 mg/m3|
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Sample Agent Zincdust Spray L 750 ml 14-07011


<table>
<thead>
<tr>
<th>Soil</th>
<th>2.31 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc oxide</td>
<td>Fresh water</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
</tr>
<tr>
<td></td>
<td>Soil</td>
</tr>
<tr>
<td></td>
<td>STP</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Personal protective equipment

Eye protection : Goggles

Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Material : Solvent-resistant gloves (butyl-rubber)

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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

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

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.
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Version: 4.1
Revision Date: 19.12.2018
SDS Number: 102000005098
Print Date: 24.12.2018
Date of first issue: 25.03.2014

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**: 55 °C
- **Flash point**: -19 °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. 1.28 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: No data available
  Viscosity, kinematic: > 21 mm²/s (40 °C)
Flow time: 11 - 13 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:**

<table>
<thead>
<tr>
<th></th>
<th>Acute toxicity estimate:</th>
<th>Exposure time: 4 h</th>
<th>Test atmosphere:</th>
<th>Method:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute inhalation</td>
<td>&gt; 20 mg/l</td>
<td>vapour</td>
<td>Calculation method</td>
<td></td>
</tr>
<tr>
<td>Acute dermal</td>
<td>&gt; 2,000 mg/kg</td>
<td></td>
<td>Calculation method</td>
<td></td>
</tr>
</tbody>
</table>

**Components:**

**acetone:**

<table>
<thead>
<tr>
<th></th>
<th>Acute oral toxicity:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbit</td>
<td>LD50: 4,700 - 5,800 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Mouse</td>
<td>3,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Rat</td>
<td>9,800 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Acute inhalation toxicity:</th>
<th>LC50 (Rat): 76 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time: 4 h</td>
<td></td>
<td>Test atmosphere: vapour</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Acute dermal toxicity:</th>
<th>LD50 (Rabbit): &gt; 2,000 mg/kg</th>
</tr>
</thead>
</table>

**zinc powder - zinc dust (stabilised):**

<table>
<thead>
<tr>
<th></th>
<th>Acute oral toxicity:</th>
<th>(Rat): &gt; 2,000 mg/kg</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Acute inhalation toxicity:</th>
<th>LC50 (Rat): 5.41 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time: 4 h</td>
<td></td>
<td>Test atmosphere: dust/mist</td>
</tr>
</tbody>
</table>

**solvent naphtha (petroleum), light arom.:**

<table>
<thead>
<tr>
<th></th>
<th>Acute oral toxicity:</th>
<th>LD50 (Rat): 3,492 mg/kg</th>
</tr>
</thead>
</table>
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Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

**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.

**Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:**
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

**ethylbenzene:**
Acute oral toxicity : LD50 (Rat): 3,500 mg/kg
Acute dermal toxicity : LD50 (Rabbit): 5,000 mg/kg

**Skin corrosion/irritation**
Repeated exposure may cause skin dryness or cracking.

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

**Components:**

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

**xylene:**
Result: Skin irritation

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Product:**
Remarks: Eye irritation
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Components:
acetone:
Remarks: Severe eye irritation

Respiratory or skin sensitisation
Skin sensitisation
Not classified based on available information.

Respiratory sensitisation
Not classified based on available information.

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
May cause drowsiness or dizziness.

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.

Aspiration toxicity
Not classified based on available information.

**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: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

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

Zinc oxide:
Remarks: No data available

### SECTION 12: Ecological information

#### 12.1 Toxicity

**Components:**
Acetone:
Toxicity to daphnia and other aquatic invertebrates: 21,600 mg/l
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.  

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.  

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.  
Toxic to aquatic life with long lasting effects.  

Components:  
Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
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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

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).
Volatile organic compounds : Directive 2004/42/EC
Volatile organic compounds (VOC) content: 47.22 %, 604.47
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. |
| 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
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
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Sample Agent Zincdust Spray L 750 ml 14-07011

Version: 4.1  
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SDS Number: 102000005098  
Print Date: 24.12.2018  
Date of first issue: 25.03.2014

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.

GB / EN