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

1.1 Product identifier
   Trade name : Sample Concentrate Zincflakespray 750 ml 14-07012
   Product code : 08070407Z

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.
   Eye irritation, Category 2
   H319: Causes serious eye irritation.
   Specific target organ toxicity - single exposure, Category 3, Respiratory system
   H335: May cause respiratory irritation.
   Specific target organ toxicity - repeated exposure, Category 2
   H373: May cause damage to organs through prolonged or repeated exposure.
   Short-term (acute) aquatic hazard,
   H400: Very toxic to aquatic life.
Category 1

Long-term (chronic) aquatic hazard, Category 1

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Danger

Hazard statements :

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory 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.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
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:
xylene
n-butyl acetate
butan-1-ol

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>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Registration number</th>
<th>Classification REGULATION (EC) No 1272/2008</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<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; H400 Aquatic Chronic 1; H410</td>
<td>&gt;= 25 - &lt; 50</td>
</tr>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>601-022-00-9</td>
<td></td>
<td>Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304</td>
<td>&gt;= 20 - &lt; 25</td>
</tr>
<tr>
<td>n-butyl acetate</td>
<td>123-86-4</td>
<td>204-658-1</td>
<td>607-025-00-1</td>
<td>01-2119485493-29</td>
<td>Flam. Liq. 3; H226 STOT SE 3; H336</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>231-072-3</td>
<td>013-002-00-1</td>
<td>01-2119529243-45</td>
<td>Flam. Sol. 1; H228</td>
<td>&gt;= 1 - &lt; 10</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>202-849-4</td>
<td>601-023-00-4</td>
<td></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>
</tr>
<tr>
<td>butan-1-ol</td>
<td>71-36-3</td>
<td>200-751-6</td>
<td>603-004-00-6</td>
<td>01-2119484630-38</td>
<td>Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335, H336</td>
<td>&gt;= 1 - &lt; 3</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates</td>
<td>68308-64-5</td>
<td>269-662-8</td>
<td></td>
<td></td>
<td>Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400</td>
<td>&gt;= 0,25 - &lt; 1</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:
- If unconscious, place in recovery position and seek medical advice.
- If symptoms persist, call a physician.

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

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

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

4.2 Most important symptoms and effects, both acute and delayed
None known.

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 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 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>xylene</td>
<td>1330-20-7</td>
<td>TWA</td>
<td>50 ppm 221 mg/m³</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>100 ppm 442 mg/m³</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 mg/m³</td>
<td>CZ OEL</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td>Skin notation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CEIL</td>
<td>400 mg/m³</td>
<td>CZ OEL</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td>Skin notation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-butyl acetate</td>
<td>123-86-4</td>
<td>TWA</td>
<td>950 mg/m³</td>
<td>CZ OEL</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CEIL</td>
<td>1.200 mg/m³</td>
<td>CZ OEL</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>TWA (Total dust)</td>
<td>10 mg/m³</td>
<td>CZ OEL</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td>Dust with predominantly no specific effect</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>TWA</td>
<td>100 ppm 442 mg/m³</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>200 ppm 884 mg/m³</td>
<td>2000/39/EC</td>
</tr>
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<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 mg/m³</td>
<td>CZ OEL</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td>Skin notation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CEIL</td>
<td>500 mg/m³</td>
<td>CZ OEL</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td>Skin notation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>butan-1-ol</td>
<td>71-36-3</td>
<td>TWA</td>
<td>300 mg/m³</td>
<td>CZ OEL</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CEIL</td>
<td>600 mg/m³</td>
<td>CZ OEL</td>
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</table>

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</td>
<td>End of shift</td>
<td>CZ BEI</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>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>
</tr>
<tr>
<td>xylene</td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>289 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – systemic effects</td>
<td>289 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>77 mg/m³</td>
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<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>180 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>174 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>174 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>108 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>14,8 mg/m³</td>
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<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>1,6 mg/kg</td>
</tr>
<tr>
<td>butan-1-ol</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
<td>310 mg/m³</td>
</tr>
</tbody>
</table>
Consumers
Inhalation long term – local effects
Consumers Ingestion long term – systemic effects
Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha
Workers Skin contact long term – systemic effects
Consumers Ingestion long term – systemic effects
Consumers Skin contact long term – systemic effects
Consumers Skin contact long term – systemic effects
Consumers Inhalation long term – systemic effects

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>
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<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>Soil</td>
<td>2,31 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Fresh water</td>
<td>0,327 mg/l</td>
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<tr>
<td></td>
<td>Fresh water sediment</td>
<td>12,46 mg/kg</td>
</tr>
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<td></td>
<td>Marine water</td>
<td>0,327 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>12,46 mg/kg</td>
</tr>
<tr>
<td></td>
<td>STP</td>
<td>6,58 mg/l</td>
</tr>
<tr>
<td>n-butyl acetate</td>
<td>Fresh water</td>
<td>0,18 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0,018 mg/l</td>
</tr>
<tr>
<td></td>
<td>STP</td>
<td>35,6 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>0,981 mg/kg</td>
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<tr>
<td></td>
<td>Marine sediment</td>
<td>0,0981 mg/kg</td>
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<tr>
<td></td>
<td>Soil</td>
<td>0,0903 mg/kg</td>
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<tr>
<td>butan-1-ol</td>
<td>Soil</td>
<td>0,015 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Fresh water</td>
<td>0,082 mg/l</td>
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<tr>
<td></td>
<td>Fresh water sediment</td>
<td>0,178 mg/kg</td>
</tr>
<tr>
<td></td>
<td>STP</td>
<td>2476 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0,0082 mg/l</td>
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<tr>
<td></td>
<td>Marine sediment</td>
<td>0,0178 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Sporadic Release</td>
<td>2,25 mg/l</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Personal protective equipment

Eye protection: Goggles

Wear face-shield and protective suit for abnormal processing problems.
Safe 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**: 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. 1,2 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**: > 21 mm²/s (40 °C)
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

**Product:**

<table>
<thead>
<tr>
<th>Acute oral toxicity</th>
<th>Acute toxicity estimate: &gt; 2.000 mg/kg Method: Calculation method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute inhalation toxicity</td>
<td>Acute toxicity estimate: &gt; 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>Acute toxicity estimate: &gt; 2.000 mg/kg Method: Calculation method</td>
</tr>
</tbody>
</table>

**Components:**

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

<table>
<thead>
<tr>
<th>Acute oral toxicity</th>
<th>(Rat): &gt; 2.000 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute inhalation toxicity</td>
<td>LC50 (Rat): 5.41 mg/l Exposure time: 4 h Test atmosphere: dust/mist</td>
</tr>
</tbody>
</table>

**xylene:**

<table>
<thead>
<tr>
<th>Acute dermal toxicity</th>
<th>Acute toxicity estimate: 1.100 mg/kg Method: Converted acute toxicity point estimate</th>
</tr>
</thead>
</table>

**aluminium powder (stabilised):**

<table>
<thead>
<tr>
<th>Acute inhalation toxicity</th>
<th>LC50 (Rat): &gt; 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist</th>
</tr>
</thead>
</table>

**ethybenzene:**

<table>
<thead>
<tr>
<th>Acute oral toxicity</th>
<th>LD50 (Rat): 3.500 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute dermal toxicity</td>
<td>LD50 (Rabbit): 5.000 mg/kg</td>
</tr>
</tbody>
</table>

**butan-1-ol:**

<table>
<thead>
<tr>
<th>Acute oral toxicity</th>
<th>Acute toxicity estimate: 500 mg/kg Method: Converted acute toxicity point estimate</th>
</tr>
</thead>
</table>
Skin corrosion/irritation

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

**Components:**
butan-1-ol:
Result: Skin irritation

Serious eye damage/eye irritation

**Product:**
Remarks: Eye irritation

**Components:**
xylene:
Result: Eye irritation

butan-1-ol:
Result: Irreversible effects on the eye

Respiratory or skin sensitisation

**Components:**
xylene:
Assessment: Harmful in contact with skin or if inhaled.

STOT - single exposure

**Components:**
xylene:
Assessment: May cause respiratory irritation.

n-butyl acetate:
Assessment: May cause drowsiness or dizziness.

butan-1-ol:
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
STOT - repeated exposure

**Components:**
- **xylene:**
  Assessment: May cause damage to organs through prolonged or repeated exposure.

**Components:**
- **xylene:**
  **Aspiration toxicity**

**Components:**
- **xylene:**
  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

**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.

**12.2 Persistence and degradability**
No data available

**12.3 Bioaccumulative potential**

**Components:**
- **xylene:**
  Partition coefficient: n- log Pow: 3,1 - 3,2
octanol/water

*n-butyl acetate:*
Partition coefficient: n-octanol/water: \( \text{log Pow: 2.3} \)

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.

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

Sample Concentrate Zincflakespray 750 ml 14-07012

Version Revision Date: SDS Number: Print Date: Date of first issue:

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: 43.79 %, 525.42 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.
H228: Flammable solid.
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.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H373: May cause damage to organs through prolonged or repeated exposure.
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Sample Concentrate Zincflakespray 750 ml 14-07012

Version 1.1
Revision Date: 20.12.2018
SDS Number: 102000005101
Print Date: 24.12.2018
Date of first issue: 21.03.2017

H400 : Very toxic to aquatic life.
H410 : Very 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 Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Flam. Sol. : Flammable solids
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
STOT RE : Specific target organ toxicity - repeated exposure
STOT SE : Specific target organ toxicity - single exposure
CZ BEI : Czech Republic. Biological Exposure Indices
CZ OEL : Czech Republic. Chemical agents at work - Appendix 2: Occupational exposure limits
2000/39/EC / TWA : Limit Value - eight hours
2000/39/EC / STEL : Short term exposure limit
CZ OEL / TWA : Time weighted average
CZ OEL / CEIL : Ceiling

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council
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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