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

Sample Concentrate Zincflakespray 750 ml 14-07012
Version 1.1 Revision Date 13.02.2014 Print Date 20.11.2018

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

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 : msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number
GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
(First call in English, response in your language is possible)
From outside US: (001) 352-323-3500
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 aerosols , Category 1 H222: Extremely flammable aerosol.
Chronic aquatic toxicity , Category 2 H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)
Extremely flammable R12: Extremely flammable.
Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)
Sample Concentrate Zincflakespray 750 ml 14-07012

Version 1.1 Revision Date 13.02.2014 Print Date 20.11.2018

Hazard pictograms:  

Signal word: Danger

Hazard statements:  
H222 Extremely flammable aerosol.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
Prevention: P273 Avoid release to the environment.  
Response: P391 Collect spillage.  
Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:  
,, S16, S 2 ; Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C., Do not pierce or burn, even after use., Do not spray on a naked flame or any incandescent material., Keep away from sources of ignition - No smoking., Keep out of the reach of children.

2.3 Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Registration number</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc</td>
<td>7440-66-6</td>
<td>231-175-3</td>
<td>01-2119467174-37</td>
<td>N; R50-R53</td>
<td>Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td>
<td>&gt;= 10 - &lt; 20</td>
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</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

If inhaled : If unconscious place in recovery position and seek medical
advice.
If symptoms persist, call a physician.

In case of skin contact:
- If skin irritation persists, call a physician.
- If on skin, rinse well with water.
- If on clothes, remove clothes.

In case of eye contact:
- 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 give milk or alcoholic beverages.
- Never give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed
This information is not available.

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:
- Carbon dioxide (CO2), Alcohol-resistant foam, Dry sand

Unsuitable extinguishing media:
- Water

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:
- Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters:
- Wear self contained breathing apparatus for fire fighting 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: Use personal protective equipment. Avoid breathing dust. 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 materials for containment and cleaning up

Methods for cleaning up: Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

This information is not available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: 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. 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: BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. 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. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Other data: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethyl ether</td>
<td>115-10-6</td>
<td>TWA</td>
<td>1,000 ppm 1,920 mg/m3</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td>Further information</td>
<td>Indicative</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>dimethyl ether</td>
<td>115-10-6</td>
<td>TWA</td>
<td>400 ppm 766 mg/m3</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
<tr>
<td>dimethyl ether</td>
<td>115-10-6</td>
<td>STEL</td>
<td>500 ppm 958 mg/m3</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Components</td>
<td>CAS-No.</td>
<td>Value type (Form of exposure)</td>
<td>Control parameters</td>
<td>Update</td>
<td>Basis</td>
</tr>
<tr>
<td>zinc</td>
<td>7440-66-6</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m3</td>
<td>2011-12-01</td>
<td>GB EH40</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.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>TWA</td>
<td>50 ppm 220 mg/m(^3)</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Further information</td>
<td>Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.</td>
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<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>STEL</td>
<td>100 ppm 441 mg/m(^3)</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Further information</td>
<td>Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.</td>
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</tr>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>TWA</td>
<td>50 ppm 221 mg/m(^3)</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td>Further information</td>
<td>Identifies the possibility of significant uptake through the skin. Indicative</td>
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<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>STEL</td>
<td>100 ppm 442 mg/m(^3)</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
</tr>
</tbody>
</table>

Further information

Identifies the possibility of significant uptake through the skin. Indicative.
### Components

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
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<th>Basis</th>
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<tr>
<td>n-butyl acetate</td>
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<td>724 mg/m³</td>
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<td>STEL</td>
<td>200 ppm</td>
<td>2005-04-06</td>
<td>GB EH40</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>966 mg/m³</td>
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<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>TWA</td>
<td>200 ppm</td>
<td>2005-04-06</td>
<td>GB EH40</td>
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</tr>
<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>STEL</td>
<td>400 ppm</td>
<td>2005-04-06</td>
<td>GB EH40</td>
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<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>500 ppm</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1,210 mg/m³</td>
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</tr>
<tr>
<td>Further information</td>
<td></td>
<td>Indicative</td>
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<tr>
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<td>67-64-1</td>
<td>TWA</td>
<td>500 ppm</td>
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<td>GB EH40</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>STEL</td>
<td>1,500 ppm</td>
<td>2005-04-06</td>
<td>GB EH40</td>
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<td>3,620 mg/m³</td>
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<tr>
<td>Further information</td>
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<td>Indicative</td>
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<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>TWA (Respirable)</td>
<td>4 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
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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.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>TWA (Inhalable)</th>
<th>Limit</th>
<th>Year</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>10 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
<td></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.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>TWA (Respirable)</th>
<th>Limit</th>
<th>Year</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>4 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
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</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...
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<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>TWA</td>
<td>100 ppm 442 mg/m3</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
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<td>Further information</td>
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<td>ethylbenzene</td>
<td>100-41-4</td>
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<td>200 ppm 884 mg/m3</td>
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<td>2000/39/EC</td>
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<td>Further information</td>
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<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>TWA</td>
<td>100 ppm 441 mg/m3</td>
<td>2005-04-06</td>
<td>GB EH40</td>
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<td>Further information</td>
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<td>ethylbenzene</td>
<td>100-41-4</td>
<td>STEL</td>
<td>125 ppm 552 mg/m3</td>
<td>2005-04-06</td>
<td>GB EH40</td>
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<tr>
<td>Further information</td>
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</tbody>
</table>

**DNEL:**
- **zinc (7440-66-6)**
  - End Use: Workers
  - Exposure routes: Inhalation
  - Potential health effects: long term – systemic effects
  - Value: 5 mg/m3
Sample Concentrate Zincflakespray 750 ml 14-07012

<table>
<thead>
<tr>
<th>DNEL:</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc (7440-66-6)</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>83 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>0.83 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>83 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>2.5 mg/m3</td>
</tr>
<tr>
<td>xylene (1330-20-7)</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>289 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Inhalation</td>
<td>short term – systemic effects</td>
<td>289 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>77 mg/m3</td>
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<tr>
<td>xylene (1330-20-7)</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>180 mg/kg</td>
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</tbody>
</table>
Sample Concentrate Zincflakespray 750 ml 14-07012

Version 1.1
Revision Date 13.02.2014
Print Date 20.11.2018

**DNEL:**
**xylene** (1330-20-7)  
End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: short term – local effects  
Value: 174 mg/m³

**DNEL:**
**xylene** (1330-20-7)  
End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: short term – systemic effects  
Value: 174 mg/m³

**DNEL:**
**xylene** (1330-20-7)  
End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: long term – systemic effects  
Value: 108 mg/kg

**DNEL:**
**xylene** (1330-20-7)  
End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: long term – systemic effects  
Value: 14.8 mg/m³

**DNEL:**
**n-butyl acetate** (123-86-4)  
End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: long term – systemic effects  
Value: 1.6 mg/kg

**DNEL:**
**n-butyl acetate** (123-86-4)  
End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: short term – local effects  
Value: 960 mg/m³

**DNEL:**
**n-butyl acetate** (123-86-4)  
End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: short term – systemic effects  
Value: 960 mg/m³

**DNEL:**
**n-butyl acetate** (123-86-4)  
End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: long term – local effects  
Value: 480 mg/m³
Sample Concentrate Zincflakespray 750 ml 14-07012

DNEL:
n-butyl acetate (123-86-4) End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 480 mg/m³

DNEL:
n-butyl acetate (123-86-4) End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 859.7 mg/m³

DNEL:
n-butyl acetate (123-86-4) End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 859.7 mg/m³

DNEL:
n-butyl acetate (123-86-4) End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – local effects
Value: 102.34 mg/m³

DNEL:
ethyl acetate (141-78-6) End Use: Workers
Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 1468 mg/m³

DNEL:
ethyl acetate (141-78-6) End Use: Workers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 1468 mg/m³

DNEL:
ethyl acetate (141-78-6) End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – local effects
Value: 734 mg/m³
Sample Concentrate Zincflakespray 750 ml 14-07012

DNEL:
ethyll acetate (141-78-6)  End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 63 mg/kg

DNEL:
ethyll acetate (141-78-6)  End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 734 mg/m3

DNEL:
ethyll acetate (141-78-6)  End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 734 mg/m3

DNEL:
ethyll acetate (141-78-6)  End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 367 mg/m3

DNEL:
ethyll acetate (141-78-6)  End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 37 mg/kg

DNEL:
ethyll acetate (141-78-6)  End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 367 mg/m3

DNEL:
ethyll acetate (141-78-6)  End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 4.5 mg/kg
Sample Concentrate Zincflakespray 750 ml 14-07012

End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 186 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 1210 mg/m³

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 62 mg/kg

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 62 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 200 mg/m³

PNEC:
zinc (7440-66-6)
Fresh water
Value: 0.0206 mg/l

PNEC:
zinc (7440-66-6)
Fresh water sediment
Value: 117.8 mg/kg

PNEC:
zinc (7440-66-6)
Marine water
Value: 0.0061 mg/l

PNEC:
zinc (7440-66-6)
STP
Value: 0.052 mg/l
## Sample Concentrate Zincflakespray 750 ml 14-07012

<table>
<thead>
<tr>
<th>Substance</th>
<th>Environment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Zinc</strong></td>
<td>Soil</td>
<td>35.6 mg/kg</td>
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<tr>
<td><strong>PNEC:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>zinc (7440-66-6)</td>
<td>Marine sediment</td>
<td>56.5 mg/kg</td>
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<tr>
<td><strong>PNEC:</strong></td>
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<td></td>
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<tr>
<td>xylene (1330-20-7)</td>
<td>Soil</td>
<td>2.31 mg/kg</td>
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<td><strong>PNEC:</strong></td>
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<tr>
<td>xylene (1330-20-7)</td>
<td>Fresh water</td>
<td>0.327 mg/l</td>
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<td><strong>PNEC:</strong></td>
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<tr>
<td>xylene (1330-20-7)</td>
<td>Fresh water sediment</td>
<td>12.46 mg/kg</td>
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<tr>
<td><strong>PNEC:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>xylene (1330-20-7)</td>
<td>Marine water</td>
<td>0.327 mg/l</td>
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<tr>
<td><strong>PNEC:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>xylene (1330-20-7)</td>
<td>Marine sediment</td>
<td>12.46 mg/kg</td>
</tr>
<tr>
<td><strong>PNEC:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>xylene (1330-20-7)</td>
<td>STP</td>
<td>6.58 mg/l</td>
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<td><strong>PNEC:</strong></td>
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<tr>
<td>n-butyl acetate (123-86-4)</td>
<td>Soil</td>
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<td><strong>PNEC:</strong></td>
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<td>n-butyl acetate (123-86-4)</td>
<td>Fresh water</td>
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<tr>
<td>n-butyl acetate (123-86-4)</td>
<td>Fresh water sediment</td>
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<td><strong>PNEC:</strong></td>
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</tr>
<tr>
<td>n-butyl acetate (123-86-4)</td>
<td>STP</td>
<td>35.6 mg/l</td>
</tr>
</tbody>
</table>
### 8.2 Exposure controls

**Personal protective equipment**

Eye protection
- Eye wash bottle with pure water
  - Tightly fitting safety goggles

Hand protection
- Material: Solvent-resistant gloves (butyl-rubber)

Remarks
- The suitability for a specific workplace should be discussed
with the producers of the protective gloves.

: 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.

Environmental exposure controls

General advice : 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>aerosol</td>
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<tr>
<td>Colour</td>
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<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH</td>
<td>no data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>-24 °C</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>-42 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td></td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Sample Concentrate Zincflakespray 750 ml 14-07012

Version 1.1 Revision Date 13.02.2014 Print Date 20.11.2018

Bulk density : no data available
Flammability (solid, gas) : no data available
Auto-flammability : no data available
Upper explosion limit : no data available
Lower explosion limit : no data available
Vapour pressure : no data available
Density : no data available
Water solubility : no data available
Solubility in other solvents : no data available
Partition coefficient: n-octanol/water : no data available
Auto-ignition temperature : no data available
Thermal decomposition : no data available
Viscosity, dynamic : no data available
Viscosity, kinematic : no data available
Flow time : no data available

9.2 Other information
no data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No decomposition if stored and applied as directed.

10.2 Chemical stability
No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
Hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials
Materials to avoid : no data available

10.6 Hazardous decomposition products
Other information : no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
Acute inhalation toxicity : Acute toxicity estimate : > 5 mg/l

Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute toxicity estimate : > 10 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg

Method: Calculation method

Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

Components:
7440-66-6 :
Acute oral toxicity : rat: > 2,000 mg/kg

Acute inhalation toxicity : LC50 rat: 5.41 mg/l
Exposure time: 4 h

1330-20-7 :
Acute dermal toxicity : Acute toxicity estimate : 1,100 mg/kg
   Method: Converted acute toxicity point estimate

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

Skin corrosion/irritation
   Product
   May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation
   Product
   Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation
   no data available

Carcinogenicity
   no data available

Toxicity to reproduction/fertility
   no data available
Reprod.Tox./Development/Teratogenicity
   no data available

STOT - single exposure
   no data available

STOT - repeated exposure
   no data available

Aspiration toxicity
   no data available

Further information
   Product
      no data available

SECTION 12: Ecological information

12.1 Toxicity
   no data available

12.2 Persistence and degradability
   no data available

12.3 Bioaccumulative potential
   no data available

12.4 Mobility in soil
   no data available
12.5 Results of PBT and vPvB assessment

no data available

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.

---

**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.

**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**

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>ADR</td>
<td>1950</td>
</tr>
<tr>
<td>IMDG</td>
<td>1950</td>
</tr>
<tr>
<td>IATA</td>
<td>1950</td>
</tr>
</tbody>
</table>

**14.2 Proper shipping name**

<table>
<thead>
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<th>Code</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>ADR</td>
<td>AEROSOLS</td>
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<tr>
<td>IMDG</td>
<td>AEROSOLS</td>
</tr>
</tbody>
</table>
Sample Concentrate Zincflakespray 750 ml 14-07012

14.3 Transport hazard class

ADR : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADR

Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)

IMDG

Labels : 2.1
EmS Number : F-D, S-U

IATA

Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Labels : 2.1

14.5 Environmental hazards

ADR : Environmentally hazardous
IMDG : Marine pollutant

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2 Chemical Safety Assessment

no data available

SECTION 16: Other information

Full text of R-Phrases

R10  Flammable.
R11  Highly flammable.
R12  Extremely flammable.
R20  Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R22  Harmful if swallowed.
R34  Causes burns.
R36  Irritating to eyes.
R38  Irritating to skin.
R50  Very toxic to aquatic organisms.
R53  May cause long-term adverse effects in the aquatic environment.

Full text of H-Statements

H220  Extremely flammable gas.
H225  Highly flammable liquid and vapour.
H226  Flammable liquid and vapour.
H228  Flammable solid.
H280  Contains gas under pressure; may explode if heated.
H302  Harmful if swallowed.
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.
H336  May cause drowsiness or dizziness.
H400  Very toxic to aquatic life.
H410  Very toxic to aquatic life with long lasting effects.

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.