

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Agent Zincludust DME 100 kgs 14-07004

Version 4.1      Revision Date: 08.01.2020      SDS Number: 102000000096      Print Date: 08.08.2020  
Date of first issue: 17.06.2014

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

#### 1.1 Product identifier

Trade name : Agent Zincludust DME 100 kgs 14-07004  
Product code : 08088330V

#### 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 :

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

#### 1.4 Emergency telephone number

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|  |  |
|--|--|
| Flammable liquids, Category 3  | H226: 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. |
| Aspiration hazard, Category 1  | H304: May be fatal if swallowed and enters airways.                      |
| Short-term (acute) aquatic hazard, Category 1                                    | H400: Very toxic to aquatic life.  |
| Long-term (chronic) aquatic hazard, Category 1                                   | H410: Very toxic to aquatic life with long lasting effects.              |

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

|      |  |
|------|--|
| H226 | Flammable liquid and vapour.                                       |
| H304 | May be fatal if swallowed and enters airways.                      |
| 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 :

|                    |  |
|--------------------|--|
| <b>Prevention:</b> |  |
| P210               | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260               | Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  |
| P273               | Avoid release to the environment.  |
| <b>Response:</b>   |  |
| P301 + P310        | IF SWALLOWED: Immediately call a POISON CENTER/doctor.   |
| P331               | Do NOT induce vomiting.  |
| P370 + P378        | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.           |

Hazardous components which must be listed on the label:

xylene  
Solvent naphtha (petroleum), light arom.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No. | Classification<br>REGULATION (EC)<br>No 1272/2008 | Concentration<br>(% w/w) |
|---------------|--------------------------------|---|--------------------------|
|               |                                |   |                          |

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|  | Registration number                         |  |                |
|--|---|--|----------------|
| zinc powder — zinc dust (stabilised)     | 7440-66-6<br>231-175-3<br>01-2119467174-37  | Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410   | >= 50 - <= 100 |
| xylene                                   | 1330-20-7<br>215-535-7                      | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>STOT RE 2; H373<br>Asp. Tox. 1; H304 | >= 20 - < 25   |
| zinc oxide                               | 1314-13-2<br>215-222-5<br>01-2119463881-32  | Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410   | >= 2.5 - < 10  |
| Solvent naphtha (petroleum), light arom. | 64742-95-6<br>918-668-5<br>01-2119455851-35 | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>STOT SE 3; H335<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411  | >= 2.5 - < 10  |
| trizinc bis(orthophosphate)              | 7779-90-0<br>231-944-3<br>01-2119485044-40  | Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410   | >= 2.5 - < 10  |

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.  
Symptoms of poisoning may appear several hours later.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.
- If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

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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 induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

### 4.2 Most important symptoms and effects, both acute and delayed

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

### 4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

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## 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

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separately in closed containments.  
Use a water spray to cool fully closed containers.

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### 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.

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### 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.

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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). 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

| Components                           | CAS-No.  | Value type (Form of exposure) | Control parameters   | Basis   |
|--------------------------------------|--|-------------------------------|----------------------|---------|
| zinc powder — zinc dust (stabilised) | 7440-66-6  | TWA (Inhalable)               | 10 mg/m <sup>3</sup> | GB EH40 |
| Further information                  | The COSHH definition of a substance hazardous to health includes dust of |                               |                      |         |

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|                     |  |                     |                                  |            |
|---------------------|--|---------------------|----------------------------------|------------|
|                     | any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.  |                     |                                  |            |
|                     |  | TWA<br>(Respirable) | 4 mg/m <sup>3</sup>              | GB EH40    |
| 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 <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. |                     |                                  |            |
| xylene              | 1330-20-7  | TWA                 | 50 ppm<br>221 mg/m <sup>3</sup>  | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative  |                     |                                  |            |
|                     |  | STEL                | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative  |                     |                                  |            |
|                     |  | TWA                 | 50 ppm<br>220 mg/m <sup>3</sup>  | GB EH40    |
| Further information | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.  |                     |                                  |            |
|                     |  | STEL                | 100 ppm<br>441 mg/m <sup>3</sup> | GB EH40    |
| Further information | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.  |                     |                                  |            |

### Biological occupational exposure limits

| Substance name | CAS-No.   | Control parameters   | Sampling time | Basis          |
|----------------|-----------|--|---------------|----------------|
| xylene         | 1330-20-7 | methyl hippuric acid: 650 Millimoles per mole Creatinine (Urine) | After shift   | GB EH40<br>BAT |

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

| Substance name                       | End Use   | Exposure routes | Potential health effects   | Value               |
|--------------------------------------|-----------|-----------------|----------------------------|---------------------|
| zinc powder — zinc dust (stabilised) | Workers   | Inhalation      | Long-term systemic effects | 5 mg/m <sup>3</sup> |
|                                      | Workers   | Skin contact    | Long-term systemic effects | 83 mg/kg            |
|                                      | Consumers | Ingestion       | Long-term systemic effects | 0.83 mg/kg          |
|                                      | Consumers | Skin contact    | Long-term systemic effects | 83 mg/kg            |

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|  |           |              | effects                    |                        |
|--|-----------|--------------|----------------------------|------------------------|
|  | Consumers | Inhalation   | Long-term systemic effects | 2.5 mg/m <sup>3</sup>  |
| xylene                                   | Consumers | Inhalation   | Long-term local effects    | 65.3 mg/m <sup>3</sup> |
|  | Consumers | Inhalation   | Long-term systemic effects | 65.3 mg/m <sup>3</sup> |
|  | Consumers | Inhalation   | Acute systemic effects     | 260 mg/m <sup>3</sup>  |
|  | Consumers | Skin contact | Long-term systemic effects | 125 mg/kg              |
|  | Consumers | Ingestion    | Long-term systemic effects | 12.5 mg/kg             |
|  | Workers   | Inhalation   | Long-term local effects    | 221 mg/m <sup>3</sup>  |
|  | Workers   | Inhalation   | Long-term systemic effects | 221 mg/m <sup>3</sup>  |
|  | Workers   | Inhalation   | Acute systemic effects     | 442 mg/m <sup>3</sup>  |
|  | Workers   | Skin contact | Long-term systemic effects | 212 mg/kg              |
| zinc oxide                               | Workers   | Inhalation   | Long-term systemic effects | 5 mg/m <sup>3</sup>    |
|  | Workers   | Skin contact | Long-term systemic effects | 83 mg/kg               |
|  | Consumers | Skin contact | Long-term systemic effects | 83 mg/kg               |
|  | Consumers | Inhalation   | Long-term systemic effects | 2.5 mg/m <sup>3</sup>  |
|  | Consumers | Ingestion    | Long-term systemic effects | 0.83 mg/kg             |
|  | Workers   | Inhalation   | Long-term local effects    | 0.5 mg/m <sup>3</sup>  |
| Solvent naphtha (petroleum), light arom. | Workers   | Inhalation   | Long-term systemic effects | 150 mg/m <sup>3</sup>  |
|  | Workers   | Skin contact | Long-term systemic effects | 25 mg/kg               |
| trizinc bis(orthophosphate)              | Workers   | Inhalation   | Long-term systemic effects | 5 mg/m <sup>3</sup>    |
|  | Workers   | Skin contact | Long-term systemic effects | 83 mg/kg               |
|  | Consumers | Skin contact | Long-term systemic effects | 83 mg/kg               |
|  | Consumers | Inhalation   | Long-term systemic effects | 2.5 mg/m <sup>3</sup>  |
|  | Consumers | Ingestion    | Long-term systemic effects | 0.83 mg/kg             |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name          | Environmental Compartment | Value       |
|-------------------------|---------------------------|-------------|
| zinc powder — zinc dust | Fresh water               | 0.0206 mg/l |



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|                             |                      |             |
|-----------------------------|----------------------|-------------|
| (stabilised)                |                      |             |
|                             | Fresh water sediment | 117.8 mg/kg |
|                             | Marine water         | 0.0061 mg/l |
|                             | Soil                 | 35.6 mg/kg  |
|                             | Marine sediment      | 56.5 mg/kg  |
| xylene                      | Fresh water          | 0.1 mg/l    |
|                             | Marine water         | 0.01 mg/l   |
|                             | Fresh water sediment | 13.7 mg/l   |
|                             | Marine sediment      | 1.37 mg/l   |
|                             | Soil                 | 2.68 mg/l   |
|                             | Secondary Poisoning  | 20 mg/kg    |
|                             | STP                  | 9.6 mg/l    |
| zinc oxide                  | Fresh water          | 0.0206 mg/l |
|                             | Marine water         | 0.0061 mg/l |
|                             | Fresh water sediment | 117.8 mg/kg |
|                             | Marine sediment      | 56.5 mg/kg  |
|                             | Soil                 | 35.6 mg/kg  |
|                             | STP                  | 0.1 mg/l    |
| trizinc bis(orthophosphate) | Fresh water          | 0.0206 mg/l |
|                             | Marine water         | 0.0061 mg/l |
|                             | Fresh water sediment | 117.8 mg/kg |
|                             | Marine sediment      | 56.5 mg/kg  |
|                             | Soil                 | 35.6 mg/kg  |
|                             | STP                  | 0.1 mg/l    |

### 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.

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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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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : No data available

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Freezing point : No data available

Boiling point/boiling range : 137 °C

Flash point : 30 °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

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Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : ca. 2 g/cm<sup>3</sup>

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 : No data available

Flow time : 13 - 14 s at 20 °C  
  Cross section: 4 mm  
  Method: DIN 53211

### 9.2 Other information

No data available

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## 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.

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### 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.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

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

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

#### Components:

##### **zinc powder — zinc dust (stabilised):**

Acute oral toxicity : (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5.41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

##### **xylene:**

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

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### **Solvent naphtha (petroleum), light arom.:**

Acute oral toxicity : LD50 (Rat): 3,492 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

### **Skin corrosion/irritation**

Causes skin irritation.

#### **Product:**

Remarks: May cause skin irritation in susceptible persons.

#### **Components:**

##### **xylene:**

Result: Skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Product:**

Remarks: Eye irritation

#### **Components:**

##### **xylene:**

Result: 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.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

May cause respiratory irritation.

#### **Components:**

##### **xylene:**

Assessment: May cause respiratory irritation.

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### **Solvent naphtha (petroleum), light arom.:**

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

### **STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

### **Components:**

#### **xylene:**

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### **Components:**

#### **xylene:**

May be fatal if swallowed and enters airways.

### **Solvent naphtha (petroleum), light arom.:**

May be fatal if swallowed and enters airways.

### **Further information**

#### **Product:**

Remarks: Solvents may degrease the skin.

#### **Components:**

#### **zinc powder — zinc dust (stabilised):**

Remarks: No data available

#### **zinc oxide:**

Remarks: No data available

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## 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.

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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.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

#### Product:

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

#### Components:

##### **zinc powder — zinc dust (stabilised):**

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

##### **zinc oxide:**

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

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## SECTION 13: Disposal considerations

European Waste Catalogue : 08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances

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### 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  
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 : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)
- IMDG  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E
- IATA (Cargo)
-



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Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Class 3 - Flammable liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Class 3 - 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.

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## 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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Volatile organic compounds : Directive 2004/42/EC  
Volatile organic compounds (VOC) content: 27.16 %, 543.17 g/l

### 15.2 Chemical safety assessment

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### SECTION 16: Other information

#### Full text of H-Statements

H226 : Flammable liquid and vapour.  
H304 : May be fatal if swallowed and enters airways.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
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.  
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 Irrit. : Skin irritation  
STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 BAT : UK. Biological monitoring guidance values  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50

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- 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 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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