

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Zinc Dust Paint 18 I

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Print Date: 05.01.2023 |
| 6.0 | 04.01.2023 | 102000005025 | Date of first issue: 23.01.2014 |

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

1.1 Product identifier

| | | |
|--------------|---|----------------------|
| Trade name | : | Zinc Dust Paint 18 I |
| Product code | : | 08135816V |

1.2 Relevant identified uses of the substance or mixture and uses advised against

| | | |
|------------------------------|---|---|
| Use of the Substance/Mixture | : | Colorant; Printing ink related material; Printing ink, Colouring agents, dyes |
|------------------------------|---|---|

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

NCEC: +44 1235 239670 (Europe)
Call and response in your language is possible.
Contract no.: ECKART29003-NCEC.

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. |
| Short-term (acute) aquatic hazard, Category 1 | H400: Very toxic to aquatic life. |

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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 : Warning

Hazard statements : H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very 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.
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
Response:
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Collect spillage.
P391
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Solvent naphtha (petroleum), light arom.
xylene
calcium oxide

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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | ClassificationREGUL ATION (EC) No 1272/2008 | Concentration (% w/w) |
|---|--|---|--------------------------|
| zinc powder — zinc dust (stabilised) | 7440-66-6 231-175-3 030-001-01-9 01-2119467174-37 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 25 - < 50 |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 918-668-5 01-2119455851-35 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 10 - < 20 |
| xylene | 1330-20-7 215-535-7 601-022-00-9 01-2119488216-32 | Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Central nervous system) Asp. Tox. 1; H304 | >= 1 - < 10 |
| zinc oxide | 1314-13-2 215-222-5 030-013-00-7 01-2119463881-32 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | >= 2.5 - < 10 |
| calcium oxide | 1305-78-8 215-138-9 | Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) | >= 1 - < 3 |

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- | | | |
|-------------------------|---|---|
| General advice | : | Move the victim to fresh air. 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 | : | Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. 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 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

- | | | |
|-------|---|--|
| Risks | : | Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. |
|-------|---|--|

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

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

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

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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). 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. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. |
| Further information on storage conditions | : | Protect from humidity and water. |

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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)

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 ³ | GB EH40 |
| | | TWA (Respirable fraction) | 4 mg/m ³ | GB EH40 |
| Limestone | 1317-65-3 | TWA (inhalable dust) | 10 mg/m ³ | GB EH40 |
| | 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 MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., 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 to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., 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 MDHS14/4., 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 limit should be used. | | | |
| | | TWA (Respirable) | 4 mg/m ³ | GB EH40 |

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| | | | | |
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| | | dust) | | |
| | 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 MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., 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 to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., 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 MDHS14/4., 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 limit should be used. | | | |
| xylene | 1330-20-7 | TWA | 50 ppm 221 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 100 ppm 442 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 50 ppm 220 mg/m3 | 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 441 mg/m3 | 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. | | | |
| calcium oxide | 1305-78-8 | TWA | 2 mg/m3 | GB EH40 |
| | | TWA (Respirable fraction) | 1 mg/m3 | 2017/164/EU |
| | Further information: Indicative | | | |
| | | STEL (Respirable fraction) | 4 mg/m3 | 2017/164/EU |
| | Further information: Indicative | | | |
| | | TWA (Respirable | 1 mg/m3 | GB EH40 |

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| | | | | |
|--|--|----------------------------------|---------------------|---------|
| | | fraction) | | |
| | | STEL (Respirable fraction) | 4 mg/m ³ | GB EH40 |

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 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 ³ |
| | Workers | Skin contact | Long-term systemic effects | 83 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 2.5 mg/m ³ |
| | Consumers | Skin contact | Long-term systemic effects | 83 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 0.83 mg/kg |
| Solvent naphtha (petroleum), light arom. | Workers | Inhalation | Long-term systemic effects | 150 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 25 mg/kg |
| | Consumers | Skin contact | Long-term systemic effects | 11 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 32 mg/m ³ |
| | Consumers | Inhalation | Long-term local effects | 11 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 11 mg/kg |
| xylene | Workers | Inhalation | Long-term local effects | 221 mg/m ³ |
| | Workers | Inhalation | Long-term systemic effects | 77 mg/m ³ |
| | Workers | Inhalation | Acute systemic effects | 289 mg/m ³ |
| | Workers | Inhalation | Acute local effects | 289 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 180 mg/kg |
| | Consumers | Inhalation | Long-term local effects | 65.3 mg/m ³ |
| | Consumers | Inhalation | Long-term systemic | 14.8 mg/m ³ |

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| | | | effects | |
|---------------|-----------|--------------|----------------------------|------------|
| | Consumers | Inhalation | Acute systemic effects | 174 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 174 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 108 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 1.6 mg/kg |
| zinc oxide | Workers | Inhalation | Long-term systemic effects | 5 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 0.5 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 83 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 2.5 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 83 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 0.83 mg/kg |
| calcium oxide | Workers | Inhalation | Acute local effects | 4 mg/m3 |
| | Workers | Inhalation | Acute systemic effects | 4 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 1 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 1 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 4 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 1 mg/m3 |

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

| Substance name | Environmental Compartment | Value |
|--------------------------------------|---------------------------|-------------------------------|
| zinc powder — zinc dust (stabilised) | Fresh water | 0.0206 mg/l |
| | Marine water | 0.0061 mg/l |
| | STP | 0.100 mg/l |
| | Fresh water sediment | 235.6 mg/kg |
| | Marine sediment | 121 mg/kg |
| xylene | Soil | 35.6 mg/kg |
| | Fresh water | 0.327 mg/l |
| | Marine water | 0.327 mg/l |
| | Fresh water sediment | 12.46 mg/kg dry weight (d.w.) |
| | Marine sediment | 12.46 mg/kg dry weight (d.w.) |
| | Soil | 2.31 mg/kg dry weight (d.w.) |
| | STP | 6.58 mg/l |
| zinc oxide | periodical release | 0.327 mg/l |
| | Fresh water | 0.0206 mg/l |

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| | | |
|--|----------------------|-------------|
| | 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/face protection : Eye wash bottle with pure water
- Goggles
- Wear face-shield and protective suit for abnormal processing problems.
- Hand protection
- Material : butyl-rubber
- 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 : Long sleeved clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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| | |
|--|--|
| Physical state | : liquid |
| Colour | : grey |
| Odour | : characteristic |
| Odour Threshold | : No data available |
| Freezing point | : No data available |
| Boiling point/boiling range | : 137 °C |
| Flammability | : No data available |
| Upper explosion limit / Upper flammability limit | : No data available |
| Lower explosion limit / Lower flammability limit | : No data available |
| Flash point | : 30 °C |
| Auto-ignition temperature | : Not relevant |
| Decomposition temperature | : No data available |
| pH | : substance/mixture is non-soluble (in water) |
| Viscosity | |
| Viscosity, dynamic | : see user defined free text |
| Viscosity, kinematic | : > 21 mm ² /s (40 °C) |
| Flow time | : 60 - 80 s at 20 °C Cross section: 4 mm Method: DIN 53211 |
| Solubility(ies) | |
| Water solubility | : insoluble |
| Solubility in other solvents | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Vapour pressure | : No data available |
| Relative density | : No data available |

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Density : ca. 1.84 g/cm³

Relative vapour density : 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 : 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

This information is not available.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

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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

Solvent naphtha (petroleum), light arom.:

Acute oral toxicity : LD50 (Rat): 3,492 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

xylene:

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

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation in susceptible persons.

Components:

xylene:

Result : Skin irritation

calcium oxide:

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : Eye irritation

Components:

xylene:

Result : Eye irritation

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calcium oxide:

Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Components:

Solvent naphtha (petroleum), light arom.:

Germ cell mutagenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Carcinogenicity

Not classified based on available information.

Components:

Solvent naphtha (petroleum), light arom.:

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

Components:

Solvent naphtha (petroleum), light arom.:

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

xylene:

Assessment : May cause respiratory irritation.

calcium oxide:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

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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

Not classified based on available information.

Components:

Solvent naphtha (petroleum), light arom.:

May be fatal if swallowed and enters airways.

xylene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

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

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Solvent naphtha (petroleum), light arom.:

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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zinc oxide:

M-Factor (Short-term (acute) : 1
aquatic hazard)

M-Factor (Long-term : 1
(chronic) aquatic hazard)

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

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

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

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

Components:

zinc powder — zinc dust (stabilised):

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

zinc oxide:

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

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Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- | | |
|------------------------|--|
| Product | : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. In accordance with local and national regulations. |
| Contaminated packaging | : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations. |

SECTION 14: Transport information

14.1 UN number or ID 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)

- | | Class | Subsidiary risks |
|------|-------|------------------|
| ADR | : 3 | |
| IMDG | : 3 | |
| IATA | : 3 | |

14.4 Packing group

- | | |
|---------------------|-------|
| ADR | |
| Packing group | : III |
| Classification Code | : F1 |

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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)

Packing instruction (cargo aircraft) : 366
Packing instruction (LQ) : Y344
Packing group : III
Labels : 3

IATA (Passenger)

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

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

| | |
|--|---|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : Conditions of restriction for the following entries should be considered: Number on list 3 Solvent naphtha (petroleum), light arom. (Number on list 3) xylene (Number on list 3) |
|--|---|

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2-methylpropan-1-ol (Number on list 3)
Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha (Number on list 3)
manganese neodecanoate (Number on list 3)
propan-2-ol (Number on list 3)
cyclohexanone oxime (Number on list 40)
salt of phosphoric acid (72243/00/2008.0040, Germany) (Number on list 3)
N,N-diethylhydroxylamine (Number on list 40, 3)
Aliphatischer Carbonsäureester (REF.: 72243/00/2010.0006, GERMANY) (Number on list 40, 3)

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

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Volatile organic compounds : Directive 2004/42/EC
Volatile organic compounds (VOC) content: 25.27 %, 464.98 g/l

15.2 Chemical safety assessment

No data available

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. |
| 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. |
| 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. |

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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 |
| 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 |
| 2017/164/EU | : Europe. Commission Directive 2017/164/EU establishing a fourth 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 |
| 2017/164/EU / STEL | : Short term exposure limit |
| 2017/164/EU / TWA | : Limit Value - eight hours |
| 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 - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -

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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; TECI - Thailand Existing Chemicals 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

Classification of the mixture:

| | |
|-------------------|------|
| Flam. Liq. 3 | H226 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| STOT SE 3 | H335 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |

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

GB / EN