



**SÜDWEST bÖlazinc**

hazard, Category 1

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms



|                          |   |   |
|--------------------------|---|---|
| Signal word              | : | Warning   |
| Hazard statements        | : | H226 Flammable liquid and vapour.<br>H410 Very toxic to aquatic life with long lasting effects.   |
| Precautionary statements | : | P102 Keep out of reach of children.<br><b>Prevention:</b><br>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/ eye protection/ face protection.<br>P284 Wear respiratory protection.<br><b>Response:</b><br>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.<br><b>Disposal:</b><br>P501 Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point. |

**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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Components**

| Chemical name                        | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number           | Classification   | Concentration<br>(% w/w) |
|--------------------------------------|---|--|--------------------------|
| zinc powder — zinc dust (pyrophoric) | 7440-66-6<br>231-175-3<br>01-2119467174-37-XXXX                 | Aquatic Acute 1; H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute aquatic toxicity): 1                                | ≥ 50 - < 70              |
| xylene                               | 1330-20-7<br>215-535-7<br>601-022-00-9<br>01-2119488216-32-XXXX | 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 | ≥ 1 - < 10               |

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|  |   |   |              |
|--|---|---|--------------|
|  |   | STOT RE 2; H373<br>Asp. Tox. 1; H304  |              |
| Hydrocarbons, C9, aromatics  | 128601-23-0<br><br>01-2119455851-35-XXXX                        | Asp. Tox. 1; H304<br>Flam. Liq. 3; H226<br>STOT SE 3; H335<br>STOT SE 3; H336<br>Aquatic Chronic 2; H411<br>EUH066, Note P                | ≥ 2,5 - < 10 |
| zinc oxide   | 1314-13-2<br>215-222-5<br>030-013-00-7<br>01-2119463881-32-XXXX | Aquatic Acute 1; H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1 | ≥ 2,5 - < 10 |
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics | 64742-48-9<br><br>649-327-00-6<br>01-2119457273-39-XXXX         | Asp. Tox. 1; H304<br><br>EUH066, Note P   | ≥ 1 - < 10   |
| ethylbenzene   | 100-41-4<br>202-849-4<br>601-023-00-4<br>01-2119489370-35-XXXX  | Flam. Liq. 2; H225<br>Asp. Tox. 1; H304<br>Acute Tox. 4; H332<br>STOT RE 2; H373<br>Aquatic Chronic 3;<br>H412                            | ≥ 1 - < 2,5  |

For explanation of abbreviations see section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

|                |  |
|----------------|--|
| General advice | When symptoms persist or in all cases of doubt seek medical advice.<br>Never give anything by mouth to an unconscious person.<br>If unconscious, place in recovery position and seek medical advice.   |
| Inhalation     | Move to fresh air in case of accidental inhalation of vapours or decomposition products.<br>Keep patient warm and at rest.<br>If breathing is irregular or stopped, administer artificial respiration.<br>If symptoms persist, call a physician. |
| Skin contact   | Take off contaminated clothing and shoes immediately.<br>Wash skin thoroughly with soap and water or use recognized skin cleanser.<br>Do NOT use solvents or thinners.<br>If skin irritation persists, call a physician.                         |
| Eye contact    | In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Seek medical advice.   |
| Ingestion      | Rinse mouth with water.<br>If swallowed, seek medical advice immediately and show this container or label.   |

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Keep at rest.  
Do NOT induce vomiting.

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

Symptoms No information available.

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

Treatment Treat symptomatically.  
No information available.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

Suitable extinguishing media CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Fire may cause evolution of:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.

**5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.  
Fight fire with normal precautions from a reasonable distance.

**Additional advice**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition.  
Ensure adequate ventilation.  
Do not breathe vapour.  
Prevent unauthorized access.

**6.2 Environmental precautions**

The product should not be allowed to enter drains, water courses or the soil.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

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).  
Clean with detergents. Avoid solvents.  
Clean contaminated surface thoroughly.  
Dispose of contaminated material as waste according to item 13.

**6.4 Reference to other sections**

Refer to protective measures listed in sections 7 and 8.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

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|                         |  |
|-------------------------|--|
| Advice on safe handling | <p>Comply with the statutory regulations on health and safety at work.</p> <p>Avoid formation of aerosol.</p> <p>Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limit values.</p> <p>The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.</p> <p>All metal parts of the mixing and processing equipment must be earthed.</p> <p>Operators should wear antistatic footwear and clothing. No sparking tools should be used.</p> |
| Hygiene measures        | <p>Do not breathe spray, vapour.</p> <p>Take off immediately all contaminated clothing.</p> <p>Avoid contact with skin, eyes and clothing.</p> <p>Wash hands before breaks and immediately after handling the product.</p> <p>After washing hands, replenish lost skin oil by means of oily skin ointment.</p> <p>When using do not eat, drink or smoke.</p>   |

**7.2 Conditions for safe storage, including any incompatibilities**

|   |   |
|---|---|
| Requirements for storage areas and containers   | <p>Store in original container.</p> <p>Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. Nonsmoking.</p> <p>Prevent unauthorized access.</p> <p>Containers which are opened must be carefully resealed and kept upright to prevent leakage.</p> <p>Protect from frost, heat and sunlight.</p> |
| Advice on protection against fire and explosion | <p>Vapours are heavier than air and may spread along floors.</p> <p>Vapours may form explosive mixtures with air.</p> <p>Take measures to prevent the build up of electrostatic charge.</p>   |
| Advice on common storage                        | <p>Keep away from combustible materials.</p> <p>Keep away from food, drink and animal feedingstuffs.</p> <p>Keep away from oxidizing agents and strongly acid or alkaline materials.</p>  |

**7.3 Specific end use(s)** For further information, see also Technical Data Sheet for the product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Occupational Exposure Limits**

| Components | CAS-No.  | Value type (Form of exposure) | Control parameters               | Basis      |
|------------|--|-------------------------------|----------------------------------|------------|
| 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,            |                               |                                  |            |

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|              |  |      |                                  |            |
|--------------|--|------|----------------------------------|------------|
|              | Indicative   |      |                                  |            |
| ethylbenzene | 100-41-4   | TWA  | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC |
|              | Further information: Identifies the possibility of significant uptake through the skin, Indicative |      |                                  |            |
|              |  | STEL | 200 ppm<br>884 mg/m <sup>3</sup> | 2000/39/EC |
|              | Further information: Identifies the possibility of significant uptake through the skin, Indicative |      |                                  |            |

The lists that were valid during the creation were used as basis.

|| Monitoring procedures for the assessment of workplace exposure: standard EN 482

**8.2 Exposure controls****Engineering measures**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates solvent vapour below the occupational exposure limit values, suitable respiratory protection must be worn.

Washing facilities / water for rinsing eyes and skin should be available.

**Personal protective equipment**

Eye/face protection : Safety glasses with side-shields conforming to EN166

## Hand protection

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,4 mm

Remarks : Recommended preventive skin protection Before starting work, apply water-resistant skincare preparations to exposed skin areas. Protective gloves should be worn in case of skin contact during preparation and application.

Gloves made of nitrile rubber, e.g. KCL 730 Camatril® Velours (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent. Skin that comes into contact with the product should be treated with protective cream. After such contact, the product concerned should under no circumstances be used.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Skin and body protection : Preventive skin protection

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Long sleeved clothing

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthehic fiber. All parts of the body should be washed after contact.

Respiratory protection : For brief exposure or low level concentrations use a respiratory filter; for more intense or longer exposure use a self-contained respiratory protective device.

Respiratory filter for brief exposure:

Combination filter A-P2

Respiratory protection complying with EN 14387.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state : liquid

Colour : grey

Odour : characteristic

Odour Threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : 136 °C

Upper explosion limit / Upper : No data available

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flammability limit

Lower explosion limit / Lower  
flammability limit : No data available

Flash point : 39,2 °C  
Method: closed cup

Decomposition temperature : No data available

pH : substance/mixture is non-soluble (in water)

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : ca. 249 mm<sup>2</sup>/s (40 °C)

Flow time : > 90 s at 20 °C  
Cross section: 4 mm

Solubility(ies)  
Water solubility : insoluble

Partition coefficient: n-  
octanol/water : not determined

Vapour pressure : No data available

Density : ca. 2,49 g/cm<sup>3</sup>

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Relative vapour density : No data available

**9.2 Other information**

Explosives : Not explosive  
In use may form flammable/explosive vapour-air mixture.

Oxidizing properties : Not applicable

Flammability (liquids) : Not applicable

Self-ignition : not auto-flammable

Evaporation rate : not applicable

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use.  
Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : Direct sources of heat.  
Strong sunlight for prolonged periods.

**10.5 Incompatible materials**

Materials to avoid : Strong acids and strong bases  
Strong oxidizing agents

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No decomposition if stored and applied as directed.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Product:**

Acute oral toxicity Based on available data, the classification criteria are not met.

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:****xylene:**

Acute inhalation toxicity

LC50 (Rat): 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity

Harmful in contact with skin.

**ethylbenzene:**

Acute inhalation toxicity

Harmful if inhaled.

**Skin corrosion/irritation****Product:**

Based on available data, the classification criteria are not met.

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

Causes skin irritation.

**Hydrocarbons, C9, aromatics:**

Repeated exposure may cause skin dryness or cracking.

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

Repeated exposure may cause skin dryness or cracking.

**Serious eye damage/eye irritation****Product:**

Based on available data, the classification criteria are not met.

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

Causes serious eye irritation.

**Respiratory or skin sensitisation****Product:**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro

Based on available data, the classification criteria are not met.

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**Carcinogenicity****Product:**

Based on available data, the classification criteria are not met.

**Reproductive toxicity****Product:**

Effects on fertility

Based on available data, the classification criteria are not met.

Developmental Toxicity

Based on available data, the classification criteria are not met.

**STOT - single exposure****Product:**

Based on available data, the classification criteria are not met.

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

Exposure routes

Inhalation

Assessment

May cause respiratory irritation.

**Hydrocarbons, C9, aromatics:**

Exposure routes

Inhalation

Assessment

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

**STOT - repeated exposure****Product:**

Based on available data, the classification criteria are not met.

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

Assessment

May cause damage to organs through prolonged or repeated exposure.

**ethylbenzene:**

Assessment

May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity****Product:**

Based on available data, the classification criteria are not met.

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

May be fatal if swallowed and enters airways.

**Hydrocarbons, C9, aromatics:**

May be fatal if swallowed and enters airways.

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

May be fatal if swallowed and enters airways.

**ethylbenzene:**

May be fatal if swallowed and enters airways.

**Toxicology, Metabolism, Distribution****Further information****Product:**

The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

**11.2 Information on other hazards****Endocrine disrupting properties****Product:**

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Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Experience with human exposure****Product:**

## General Information

Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects.

Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system.  
Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Long-term or repeated contact with the product leads to degreasing of the skin and can cause nonallergenic contact skin damage (contact dermatitis) and / or the resorption of substances.

Solvent sprays can cause irritation and reversible damage to the eye.

**Further information****Product:**

## Remarks

: The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity****Product:**

Toxicity to fish No data available

**Components:****zinc powder — zinc dust (pyrophoric):**

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 0,182 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates IC50 : 0,34 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) 1

**Hydrocarbons, C9, aromatics:**

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 9,22 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): 6,14 mg/l  
Exposure time: 48 h

**zinc oxide:**

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): 0,5 mg/l  
Exposure time: 96 h  
Test Type: static test

M-Factor (Acute aquatic toxicity) 1

Toxicity to fish (Chronic toxicity) NOEC: 0,08 mg/l  
Exposure time: 21 d  
Species: Oncorhynchus mykiss (rainbow trout)

M-Factor (Chronic aquatic toxicity) 1

**SÜDWEST bÖlazinc****12.2 Persistence and degradability****Product:**

Biodegradability No data available

**Components:****Hydrocarbons, C9, aromatics:**

Biodegradability rapidly degradable

**12.3 Bioaccumulative potential****Product:**

Bioaccumulation No data available

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

Partition coefficient: n-octanol/water log Pow: &gt; 3

**zinc oxide:**

Bioaccumulation Bioaccumulation is unlikely.

**12.4 Mobility in soil****Product:**

Mobility 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****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects****Product:**Additional ecological information Even small quantities emptied into the soil can affect the quality of drinking water.  
Do not use in the direct vicinity of bodies of water. Do not allow the agent or any product residues to enter into waters, the soil or the sewage system.  
Very toxic to aquatic life with long lasting effects.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**Product The user is responsible for proper coding and marking of any waste. When used as recommended, the waste code can be selected according to the code of the European Waste Catalogue (EWC), category 17.09 "Other Construction and Demolition Waste"  
Partial and residual quantities can be reused.  
Fluid remains constitute hazardous waste and should not be poured into the sewage system. They should be taken to a local waste disposal site.

Contaminated packaging Empty packaging should be recycled through disposal systems.

**SÜDWEST bÖlazinc**Waste key for the unused  
product08 01 11\* waste paint and varnish containing organic solvents or other  
hazardous substances

(\*) hazardous waste in terms of the European directive 2008/98/EG

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number or ID number**

|             |      |
|-------------|------|
| <b>ADR</b>  | 1263 |
| <b>IMDG</b> | 1263 |
| <b>IATA</b> | 1263 |

**14.2 UN proper shipping name**

|             |  |
|-------------|--|
| <b>ADR</b>  | PAINT  |
| <b>IMDG</b> | PAINT<br>(zinc powder — zinc dust (pyrophoric), Hydrocarbons, C9, aromatics) |
| <b>IATA</b> | Paint  |

**14.3 Transport hazard class(es)**

|             |   |
|-------------|---|
| <b>ADR</b>  | 3 |
| <b>IMDG</b> | 3 |
| <b>IATA</b> | 3 |

**14.4 Packing group**

|                              |                 |
|------------------------------|-----------------|
| <b>ADR</b>                   |                 |
| Packing group                | III             |
| Classification Code          | F1              |
| Hazard Identification Number | 30              |
| Labels                       | 3               |
| Tunnel restriction code      | (D/E)           |
| <b>IMDG</b>                  |                 |
| Packaging group              | III             |
| Labels                       | 3               |
| EmS number                   | F-E, <u>S-E</u> |
| <b>IATA</b>                  |                 |
| Packaging group              | III             |
| Labels                       | 3               |

**14.5 Environmental hazards**

|                           |       |
|---------------------------|-------|
| <b>ADR</b>                |       |
| Environmentally hazardous | : yes |

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**IMDG**  
Marine pollutant : yes

**14.6 Special precautions for user**

Remarks This information is not available.

**14.7 Maritime transport in bulk according to IMO instruments**

Remarks Not applicable

**Additional advice**

ADR ADR: Packages < 5 l: No dangerous goods (ADR 2.2.3.1.5).

IMDG IMDG: Packages < 5 l: No dangerous goods (IMDG 2.3.2.5).

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC  
Directive 2010/75/EU 14,2 %

VOC  
Directive 2004/42/EC 14,1 %  
352,2 g/l

EU limit value for this product (cat. A/i) :500 g/lThis product contains  
max500 g/IVOC.

Regulation (EU) No 649/2012 of  
the European Parliament and the  
Council concerning the export and  
import of dangerous chemicals Not applicable

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:  
(75, 3)

zinc powder — zinc dust (pyrophoric) (75)

Other regulations Comply with the statutory regulations on health and safety at work.  
Take note of Dir 94/33/EC on the protection of young people at work.  
Take note of Dir 92/85/EEC on the safety and health at work of pregnant  
workers.

**SÜDWEST bÖlazinc****15.2 Chemical safety assessment**

This information is not available.

**SECTION 16: OTHER INFORMATION**

**Changes from the previous version are indicated by markings in the left-hand margin. The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.**

**Full text of H-Statements**

|      |  |
|------|--|
| H225 | : Highly flammable liquid and vapour.                                |
| 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.                   |
| H412 | : Harmful 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   |

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

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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; TECl - 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

Other information

The assessment was carried out in accordance with Article 6 (5) and Appendix I of EC Directive no. 1272/2008.

It is possible in the interim period that you may find different markings on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

Department issuing MSDS  
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