

## EC Safety Data Sheet

### WEICON Zinc Spray

valid for  
Zinc Spray

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Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 17.09.2007

Revision 03.09.2007 (GB) Version 5.0

**Zinc Spray (GB)**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

|                                        |                                                                                                                                                                                                                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of product</b>                 | <b>Zinc Spray (GB)</b>                                                                                                                                                                                                                                                                            |
| <b>Manufacturer/distributor</b>        | WEICON GmbH & Co. KG<br>Königsberger Straße 255, D-48157 Münster<br>Postbox 84 60, D-48045 Münster<br>Phone ++49(0)251 / 9322 - 0, Fax ++49(0)251 / 9322-244<br><br>E-Mail <a href="mailto:info@weicon.de">info@weicon.de</a><br>Internet <a href="http://www.weicon.de">http://www.weicon.de</a> |
| <b>Advice</b>                          | Abteilung Angebote, Verkauf, Export<br>Phone ++49(0)251 / 9322 - 0                                                                                                                                                                                                                                |
| <b>Emergency advice</b>                | Informationszentrale gegen Vergiftungen - Bonn<br>Phone ++49(0)228-19 240                                                                                                                                                                                                                         |
| <b>Recommended intended purpose(s)</b> | Technical Aerosols                                                                                                                                                                                                                                                                                |

## 2. HAZARDS IDENTIFICATION

### Classification

F+; R12

N; R51/53

### R-phrases

12 Extremely flammable.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Special hazards information for humans and environment

In extensive use, formation of flammable / explosive vapour-air mixture is possible.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical characterization

Zinc spray based on synthetic resin binder, solvent and pigments.

### Hazardous ingredients

| CAS No    | EC No     | Name                                 | [% weight] | Classification          |
|-----------|-----------|--------------------------------------|------------|-------------------------|
| 67-64-1   | 200-662-2 | acetone                              | 2,5 - 10   | F R11; Xi R36; R66; R67 |
| 115-10-6  | 204-065-8 | dimethylether                        | 50 - 100   | F+ R12                  |
| 123-86-4  | 204-658-1 | n-butyl acetate                      | 2,5 - 10   | R10; R66; R67           |
| 141-78-6  | 205-500-4 | ethyl-acetate                        | 2,5 - 10   | F R11; Xi R36; R66; R67 |
| 1330-20-7 | 215-535-7 | xylene                               | 10 - 25    | R10; Xn R20/21; Xi R38  |
| 7440-66-6 | 231-175-3 | zinc powder - zinc dust (stabilized) | 10 - 24    | N R50/53                |
| 7429-90-5 | 231-072-3 | aluminium powder (stabilised)        | <= 2,5     | R10-15                  |
| 3006-13-1 | 221-108-6 | Tetraalkylammoniumethylsulfat        | <= 2,5     | Xn R22; N R50/53        |



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#### 4. FIRST AID MEASURES

**General information**

Remove contaminated soaked clothing immediately.

**In case of inhalation**

Remove the casualty into fresh air and keep him immobile.  
In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off with soap and water.  
Consult a doctor if skin irritation persists.

**In case of eye contact**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**In case of ingestion**

Do not induce vomiting.  
Medical treatment.

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#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Dry powder  
Carbon dioxide  
sand

**Extinguishing media which must not be used for safety reasons**

water

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Danger of bursting  
Fire gas of organic material has to be classed invariably as respiratory poison.

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.  
Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

**Additional information**

Vapours are heavier than air and will spread on the ground.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Ensure adequate ventilation.  
Use personal protective clothing.  
Keep away sources of ignition.

**Environmental precautions**

Do not discharge into the drains or bodies of water..

**Methods for cleaning up**

Take up with absorbent material.  
After taking up the material dispose according to regulation.



## 7. HANDLING AND STORAGE

### Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Do not spray into flames or any incandescent material.

Pressurized container.

Do not pierce or burn even after use.

Vapours can form an explosive mixture with air.

Avoid effect of heat.

### Requirements for storage rooms and vessels

Keep in closed original container.

Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.

### Advice on storage compatibility

Do not store with combustible materials.

### Further information on storage conditions

Protect from direct solar radiation.

Storage temperature may not exceed 50°C (=122°F).

Store container at cool and aired place.

Keep in a cool place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with occupational exposure limits to be monitored

| CAS No    | Name                                | Code       | [mg/m3] | [ml/m3] | Spitzenb | Remark    |
|-----------|-------------------------------------|------------|---------|---------|----------|-----------|
| 67-64-1   | Acetone                             | 8 hours    | 1210    | 500     |          | EH40/2005 |
|           |                                     | Short-term | 3620    | 1500    |          |           |
| 7429-90-5 | Aluminium metal: inhalable dust     | 8 hours    | 10      |         |          | EH40/2005 |
| 7429-90-5 | Aluminium metal: respirable dust    | 8 hours    | 4       |         |          | EH40/2005 |
| 71-36-3   | butan-1-ol                          | 8 hours    |         |         |          | EH40/2005 |
|           |                                     | Short-term | 154     | 50      |          |           |
| 115-10-6  | Dimethyl ether                      | 8 hours    | 766     | 400     |          | EH40/2005 |
|           |                                     | Short-term | 958     | 500     |          |           |
| 141-78-6  | Ethyl acetate                       | 8 hours    |         | 200     |          | EH40/2005 |
|           |                                     | Short-term |         | 400     |          |           |
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | 8 hours    | 220     |         |          | EH40/2005 |
|           |                                     | Short-term | 441     | 100     |          |           |

### Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC or 2006/15/EC)

| CAS No    | Name                        | Code       | [mg/m3] | [ppm] | Remark |
|-----------|-----------------------------|------------|---------|-------|--------|
| 1330-20-7 | xylene, mixed isomers, pure | 8 hours    | 221     | 50    | skin   |
|           |                             | Short-term | 442     | 100   |        |
| 115-10-6  | dimethylether               | 8 hours    | 1920    | 1000  |        |
| 67-64-1   | acetone                     | 8 hours    | 1210    | 500   |        |

### Respiratory protection

If ventilation insufficient, wear respiratory protection.



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#### Hand protection

When using chemical substances protective gloves against chemicals must be worn with the CE-label including the four control digits.

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile rubber; 0,1mm; 480min;60min.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

#### Eye protection

safety goggles

#### Skin protection

protective clothing

#### General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

#### Hygiene measures

At work do not eat, drink, smoke or take drugs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form**  
aerosol

**Colour**  
silver-grey

**Odour**  
solvent-like

#### Important health, safety and environmental information

|                              | Value          | Temperature | at | Method | Remark    |
|------------------------------|----------------|-------------|----|--------|-----------|
| <b>boiling point</b>         | -24 °C         |             |    |        |           |
| <b>Flash point</b>           | ca. -42 °C     |             |    |        |           |
| <b>Ignition temperature</b>  | 365 °C         |             |    |        |           |
| <b>Lower explosion limit</b> | 1,1 Vol-%      |             |    |        |           |
| <b>Upper explosion limit</b> | 18,6 Vol-%     |             |    |        |           |
| <b>Vapour pressure</b>       | 5200 hPa       | 20 °C       |    |        |           |
| <b>Density</b>               | not determined |             |    |        |           |
| <b>Solubility in water</b>   |                |             |    |        | insoluble |

#### Explosive properties

The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

## 10. STABILITY AND REACTIVITY

#### Conditions to avoid

Keep away from heat.

Formation of explosive gas/air mixtures.

#### Materials to avoid

Reactions with acids, alkalies and oxidising agents.

#### Hazardous decomposition products

carbon monoxide and carbon dioxide



#### Thermal decomposition

Remark No decomposition if used as directed.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity/Irritability/Sensitization

|                           | Value/Validation | Species | Method | Remark |
|---------------------------|------------------|---------|--------|--------|
| <b>Irritability skin</b>  | non-irritant     |         |        |        |
| <b>Irritability eye</b>   | non-irritant     |         |        |        |
| <b>Skin sensitization</b> | non-sensitizing  |         |        |        |

#### Experiences made from practice

Vapours may cause dizziness, headaches and tiredness  
Inhalation causes narcotic effect/intoxication.

#### Additional information

Labelling in compliance with the assessment procedure specified in the EC guidelines 1999/45/EG

### 12. ECOLOGICAL INFORMATION

#### General regulation

Trinkwassergefährdung bereits beim Auslaufen geringer Mengen in den Untergrund  
Do not allow uncontrolled leakage of product into the environment.  
Product is not allowed to be discharged into aquatic environment.

### 13. DISPOSAL CONSIDERATIONS

| Waste code No. | Name of waste                                                                   |
|----------------|---------------------------------------------------------------------------------|
| 15 01 04       | metallic packaging                                                              |
| 16 05 04*      | gases in pressure containers (including halons) containing dangerous substances |

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

#### Recommendations for the product

Remove in accordance with local official regulations.  
There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany, the Recycling and Waste Management Act 8 KrW-/AbfG) stipulates recycling as a requirement.

#### Recommendations for packaging

Dispose of according to the local waste regulations.

#### General information

For proper waste disposal a complete emptying of the tin is necessary.

### 14. TRANSPORT INFORMATION

#### Land and inland navigation transport ADR/RID

UN 1950 AEROSOLS, 2.1  
transport in "limited quantities" according to 3.4 ADR LQ2 is possible

#### Marine transport IMDG

UN 1950 AEROSOLS, 2.1  
Transport as limited quantities according to 3.4 IMDG Code is possible.



**Air transport ICAO/IATA-DGR**  
UN 1950 Aerosols, flammable, 2.1

## 15. REGULATORY INFORMATION

### Remarks for classification

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

### Classification

- F+** Extremely flammable
- N** Dangerous for the environment

### R-phrases

- 12 Extremely flammable.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### S-phrases

- 2 Keep out of the reach of children.
- 23.4 Do not breathe spray.
- 29/56 Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.
- 51 Use only in well-ventilated areas.
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

### Special labelling for certain preparations

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray into flames or onto glowing objects.

Without sufficient ventilation the formation of explosive vapour/air mixtures cannot be excluded. Keep away from ignition sources - Do not smoke. Keep out of children's reach.

## 16. OTHER INFORMATION

### Recommend uses and restrictions

National and local regulations concerning chemicals shall be observed.

### Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

### Wording of the R-phrases specified in chapter 2 (not the classification of the formulation!)

- R 10 Flammable.
- R 11 Highly flammable.
- R 12 Extremely flammable.
- R 15 Contact with water liberates extremely flammable gases.
- R 20/21 Harmful by inhalation and in contact with skin.
- R 22 Harmful if swallowed.
- R 36 Irritating to eyes.
- R 38 Irritating to skin.
- R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.