



Safety Data Sheet according to Regulation (EC)  
No. 1907/2006 (REACH)

Printed 08.01.2016  
revision 27.11.2015 (GB) Version 8.2

**Zinc-Spray**

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

**1.1. Product identifier**

**Name of product**

Zinc-Spray  
Code-Nr. 110000

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

**Recommended intended purpose(s)**

Technical Aerosols

**1.3. Details of the supplier of the safety data sheet**

**Distributor**

WEICON GmbH & Co. KG  
Königsberger Str. 255, DE-48157 Münster  
Postbox 48045, DE-8460 Münster  
Phone ++49(0)251 / 9322 - 0, Fax ++49(0)251 / 9322 - 244  
E-Mail : msds@weicon.de  
Internet : www.weicon.de

**Advice**

Produktsicherheit / Product-Safety-Department  
Phone ++49(0)251 / 9322 - 0  
E-mail (competent person):  
msds@weicon.de

**1.4. Emergency telephone number**

GIZ Bonn (German, English) Tel: ++49(0)228-19 240  
TRANSPORT: Consultank Lutz Harder GmbH Tel: +49(0)178  
433 7434 (24h Emergency Contact)

**Manufacturer**

WEICON GmbH & Co. KG  
Königsberger Str. 255, DE-48157 Münster

**1.4. Emergency telephone number**

**Emergency advice**

-  
Phone -  
GIZ Bonn (Medizinische Auskunft in Deutsch und Englisch)  
Tel: ++49(0)228-19 240  
TRANSPORT: Consultank Lutz Harder GmbH Tel: +49(0)178  
433 7434 (24h Emergency Contact)

**! SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Aerosol 1	H222, H229	
Aquatic Chronic 2	H411	

**Hazard Statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H411	Toxic to aquatic life with long lasting effects.

## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS02



GHS09

### ! Signal word

Danger

### Hazard Statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H411 Toxic to aquatic life with long lasting effects.

### Precautionary Statements

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P273 Avoid release to the environment.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P501 Dispose of contents/container to hazardous or special waste collection point.

## 2.3. Other hazards

Product has an anesthetic effect.

### ! Information pertaining to special dangers for human and environment

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

### ! Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## ! SECTION 3: Composition/ information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

#### Description

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

### ! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
67-64-1	200-662-2	acetone	3 < 10	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
100-41-4	202-849-4	ethylbenzene	< 10	Flam. Liq. 2, H225 / Acute Tox. 4, H332 / STOT RE 2, H373 (hearing organs) / Asp. Tox. 1, H304
7429-90-5	231-072-3	aluminium powder (stabilised)	< 10	Water-react. 2, H261 / Flam. Sol. 1, H228
7440-66-6	231-175-3	zinc powder - zinc dust (stabilized)	10 < 20	Aquatic Acute 1, H400 / Aquatic Chronic 1, H410



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### Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
115-10-6	204-065-8	dimethylether	50 <= 100	Flam. Gas 1, H220 / Press. Gas
123-86-4	204-658-1	n-butyl acetate	< 10	Flam. Liq. 3, H226 / STOT SE 3, H336
141-78-6	205-500-4	ethyl-acetate	3 < 10	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
1330-20-7	215-535-7	xylene	5 < 10	Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Acute Tox. 4, H312 / Skin Irrit. 2, H315

## SECTION 4: First aid measures

### 4.1. Description of 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.

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

No information available.

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

No information available.

## ! SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam

Carbon dioxide

Dry sand

#### Unsuitable extinguishing media

water

### 5.2. Special hazards arising from the substance or mixture

May lead to formation of explosive/easily ignitable vapour air mixtures.

Danger of bursting

### 5.3. Advice for firefighters

#### ! Special protective equipment for fire-fighters

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.

Cool endangered containers with water spray jet.



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Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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## **! SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **! For non-emergency personnel**

Ensure adequate ventilation.  
Use personal protective clothing.  
Keep away sources of ignition.  
Use breathing apparatus if exposed to vapours/dust/aerosol.  
Pay attention to extension of gas especially at ground (heavier than air) and in direction of the wind.

### **6.2. Environmental precautions**

Inform pollution control authorities if product gets into the sewerage systems or open waters.  
Do not discharge into the drains or bodies of water..

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

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

### **6.4. Reference to other sections**

Safe handling: see section 7  
Disposal: see section 13  
Personal protection equipment: see section 8

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## **! SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **! Advice on safe handling**

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.  
Take measures against electrostatically charging.

#### **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.  
Wash hands before breaks and after work.

#### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking  
Do not spray on a naked flame 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.  
Use explosion-proof equipment / fittings and non-sparking tools.

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

#### **Requirements for storage rooms and vessels**

Keep in closed original container.  
Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.

#### **! 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.

**Zinc-Spray****7.3. Specific end use(s)****Recommendation(s) for intended use**

See section 1.2

**! SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Ingredients with occupational exposure limits to be monitored**

CAS No	Name	Code	[mg/m3]	[ppm]	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
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	
100-41-4	Ethylbenzene	8 hours	441	100	EH40/2005
		Short-term	552	125	
1330-20-7	Xylene, o-, m-, p- or mixed isomers	8 hours	220	50	EH40/2005
		Short-term	441	100	

**Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)**

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
100-41-4	ethylbenzene	8 hours	442	100	skin
		Short-term	884	200	
115-10-6	dimethylether	8 hours	1920	1000	
1330-20-7	xylene, mixed isomers, pure	8 hours	221	50	skin
		Short-term	442	100	
67-64-1	acetone	8 hours	1210	500	

**! Additional advice**

The statutory local and national regulations have to be observed.

**8.2. Exposure controls****! Respiratory protection**

If ventilation insufficient, wear respiratory protection.

Short-term: filter apparatus, filter AX, otherwise environment-independent breathing apparatus.

**! Hand protection**

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

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.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyl rubber, 0,7mm; 480min

**! Eye protection**

tightly fitting goggles

**Other protection measures**

protective clothing

**! Appropriate engineering controls**

Sufficient ventilation and exhaustion.



## ! SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance**  
aerosol

**Colour**  
silver-grey

**Odour**  
solvent-like

**Odour threshold**  
not determined

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>boiling point</b>	not applicable				
<b>Melting point / Freezing point</b>	not determined				
<b>Flash point</b>	not applicable				Aerosol
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	> 200 °C				estimate
<b>Self ignition temperature</b>	not determined				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	not determined				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>	not determined				
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity dynamic</b>					not determined
<b>Viscosity kinematic</b>					not determined
<b>Oxidising properties</b> No information available.					



#### Explosive properties

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

#### 9.2. Other information

No information available.

## ! SECTION 10: Stability and reactivity

#### 10.1. Reactivity

no

#### 10.2. Chemical stability

No information available.

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

#### 10.4. Conditions to avoid

Keep away from heat.

Formation of explosive gas/air mixtures.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

#### Thermal decomposition

Remark No decomposition if used as directed.

## ! SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	> 2000 mg/kg	rat		Information concerns to main component.
<b>LD50 acute dermal</b>	1100 mg/kg			Xylene
<b>LC50 acute inhalation</b>	> 5 mg/l (4 h)	rat		Aluminium
<b>Skin irritation</b>	irritant			
<b>Eye irritation</b>	irritant			

#### ! Experiences made from practice

Often and long skin contact may cause degreasing and desiccation of the skin which may caus skin irritation.

Irritates respiratory tract.

Irritates eyes and skin.

#### Additional information

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.



## ! SECTION 12: Ecological information

### 12.1. Toxicity

No information available.

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

#### ! General regulation

Toxic to aquatic life with long lasting effects.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into aquatic environment.

## ! SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### ! Waste code No.

08 01 11\*

#### Name of waste

waste paint and varnish containing organic solvents or other hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

#### ! Recommendations for the product

Remove in accordance with local official regulations.

#### 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.

## ! SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS (ZINC POWDER)	Aerosols, flammable
14.3. Transport hazard class(es)	2.1	2.1	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	Yes	Yes	Yes





**Zinc-Spray**

**14.6. Special precautions for user**

No information available.

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

not applicable

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

Hazard label(s) 2.1

tunnel restriction code D

Classification code 5F

transport in "limited quantities" according to 3.4 ADR is possible

**Marine transport IMDG**

MARINE POLLUTANT

Transport as limited quantities according to 3.4 IMDG Code is possible.

**! Transport/further information**

24h EMERGENCY CONTACT (TRANSPORT) +49(0)178 433 7434 (Consultank Lutz Harder GmbH)

**! SECTION 15: Regulatory information**

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

**! VOC standard**

VOC content 76,8 %

VOC value 660 g/L

**15.2. Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**! SECTION 16: Other information**

**! Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

For industrial use only.

**Further information**

Each user is responsible for the implementation of the national special regulations.

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.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 8.1

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
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.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.