

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

1.1. Product identifier	
Name of product	Zinc-Spray Code-Nr. 110000
<b>1.2. Relevant identified uses of the substance or mixtu Recommended intended purpose(s)</b> Technical Aerosols	ure and uses advised against
1.3. Details of the supplier of the safety data sheet	
Distributor	WEICON GmbH & Co. KG Königsberger Str. 255, DE-48157 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 Fax : +49(0)251 / 9322 - 244 E-mail (competent person): msds@weicon.de
1.4. Emergency telephone number	
	EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English) TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)
Manufacturer	WEICON GmbH & Co. KG Königsberger Str. 255, DE-48157 Münster
1.4. Emergency telephone number	
	GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h): Tel: ++49 69 222 25285 (Deutsch, Englisch)

#### **SECTION 2: Hazards identification**

H411

#### 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and categories	I Hazard Hazard Statements Classification procedure
Aerosol 1	H222, H229
Eye Irrit. 2	H319
Aquatic Chronic 2	H411
Hazard Statement H222 H229	<b>s</b> Extremely flammable aerosol. Pressurised container: May burst if heated.
H319	Causes serious eye irritation.

Toxic to aquatic life with long lasting effects.



## 2.2. Label elements Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



Signal word Danger

#### **Hazard Statements**

H222 H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

#### **Precautionary Statements**

P102	Keep out of reach of children.
P210 P211 P251 P264 P273 P280	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash hands thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection.
P305 + P351 + P338 P337 + P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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 Hazardous ingredients

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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



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CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
71-36-3	200-751-6	butan-1-ol	1 < 2	Flam. Liq. 3, H226 / Acute Tox. 4, H302 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / STOT SE 3, H336
100-41-4	202-849-4	ethylbenzene	< 5	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)	< 5	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
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
68308-64-5	269-662-8	Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates	< 0,25	Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Aquatic Acute 1, H400
1330-20-7	215-535-7	xylene	5 < 10	Flam. Liq. 3, H226 / STOT RE 2, H373 / Asp. Tox. 1, H304 / Acute Tox. 4, H312, H332 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / STOT SE 3,

# REACH

CAS No	Name	<b>REACH registration number</b>
67-64-1	acetone	01-2119471330-49
71-36-3	butan-1-ol	01-2119484630-38
100-41-4	ethylbenzene	01-2119489370-35
7429-90-5	aluminium powder (stabilised)	01-2119529243-45
7440-66-6	zinc powder - zinc dust (stabilized)	01-2119467174-37
115-10-6	dimethylether	01-2119472128-37
123-86-4	n-butyl acetate	01-2119485493-29
141-78-6	ethyl-acetate	01-2119475103-46
68308-64-5	Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates	not subject to registration
1330-20-7	xylene	01-2119488216-32

# **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.

Do not inhale explosion and/or combustion gases.

#### Additional information

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

# **! 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 surface waters/groundwater. Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust). After taking up the material dispose according to regulation.

#### **Additional Information**

Sort out leaky cans and dispose according to regulations.

#### 6.4. Reference to other sections

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



# **! 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

Store at +5 till +25 °C. Protect from direct solar radiation. Storage temperature may not exceed 50°C (=122°F). Store container at cool and aired place.

# 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	
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	
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	



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CAS No	Name	Code	[mg/m3]	[ppm]	Remark
00-41-4	ethylbenzene	8 hours Short-term	442 884	100 200	skin
15-10-6	dimethylether	8 hours	1920	1000	
7-64-1 NEL-/PNEC	acetone	8 hours	1210	500	
NEL worke					
CAS No	Substance name	Value	Code		Remark
00-41-4	ethylbenzene	77 mg/m3	DNEL long-term inhalative (systemic)		
15-10-6	dimethylether	1894 mg/m3	DNEL long-term inhalative (systemic)		
23-86-4	n-butyl acetate	960 mg/m3	DNEL acute inhalative (sys	stemic)	
		480 mg/m3	DNEL long-term inhalative (systemic)		
		11 mg/kg	DNEL long-term dermal (sy	/stemic)	
		2 mg/kg	DNEL short-term oral (acut	e)	
		11 mg/kg	DNEL acute dermal, short- (systemic)	term	
		300 mg/m3	DNEL long-term inhalative	(local)	
		600 mg/m3	DNEL acute inhalative (loc	al)	
330-20-7	xylene	77 mg/m3	DNEL long-term inhalative (systemic)		
		289 mg/m3	DNEL acute inhalative (sys	stemic)	
		180 mg/kg	DNEL long-term dermal (sy	/stemic)	
		289 mg/m3	DNEL acute inhalative (loc	al)	
		289 mg/m3	DNEL acute inhalative (loc	al)	
41-78-6	ethyl-acetate	1468 mg/m3	DNEL acute inhalative (sys	stemic)	
		734 mg/m3	DNEL long-term inhalative	(local)	
		63 mg/kg	DNEL long-term dermal (sy	/stemic)	
		1468 mg/m3	DNEL acute inhalative (loca	al)	
7-64-1	acetone	1210 mg/m3	DNEL long-term inhalative (systemic)		
		2420 mg/m3	DNEL acute inhalative (loca	al)	
		186 mg/kg	DNEL long-term dermal (sy	/stemic)	
1-36-3	butan-1-ol	3,125 mg/ kg bw/day	DNEL long-term oral (repea	ated)	
		55 mg/m3	DNEL long-term inhalative	(local)	
		310 mg/m3	DNEL long-term inhalative	(local)	
429-90-5	aluminium powder (stabilised)	3,72 mg/m3	DNEL long-term inhalative	(local)	
440-66-6	zinc powder - zinc dust (stabilized)	5 mg/m3	DNEL long-term inhalative (systemic)		
		83 mg/kg	DNEL long-term dermal (sy	(stemic)	



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PNEC				
CAS No	Substance name	Value	Code	Remark
123-86-4	n-butyl acetate	0,18 mg/l	PNEC aquatic, freshwater	
		0,981 mg/kg	PNEC sediment, freshwater	
		0,018 mg/l	PNEC aquatic, marine water	
1330-20-7	xylene	0,327 mg/l	PNEC aquatic, marine water	
		12,46 mg/kg	PNEC sediment, freshwater	
		0,327 mg/l	PNEC aquatic, freshwater	
		2,31 mg/kg	PNEC sediment, freshwater	
		12,46 mg/kg	PNEC sediment, marine water	
141-78-6	ethyl-acetate	0,024 mg/l	PNEC aquatic, marine water	
		0,34 mg/kg	PNEC sediment, freshwater	
		0,115 mg/kg	PNEC sediment, marine water	
		0,24 mg/l	PNEC aquatic, freshwater	
67-64-1	acetone	3,04 mg/kg	PNEC sediment, marine water	
		1,06 mg/l	PNEC aquatic, marine water	
		30,4 mg/kg	PNEC sediment, freshwater	
		10,6 mg/l	PNEC aquatic, freshwater	
71-36-3	butan-1-ol	0,0082 mg/l	PNEC aquatic, marine water	
		0,082 mg/l	PNEC aquatic, freshwater	
		0,178 mg/kg	PNEC sediment, freshwater	
		0,0178 mg/kg	PNEC sediment, marine water	
7440-66-6	zinc powder - zinc dust (stabilized)	56,5 mg/kg	PNEC sediment, marine water	
		0,0206 mg/l	PNEC aquatic, freshwater	
		117,8 mg/kg	PNEC sediment, freshwater	
		0,0061 mg/l	PNEC aquatic, marine water	

#### 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.

9.1. Information on basic ph	vsical and chem	ical properties				
Appearance aerosol		Colour silver-grey		<b>Odour</b> solvent-li	Odour solvent-like	
Odour threshold not determined						
Important health, safety and	l environmental i	information				
	Value	Temperature	at	Method	Remark	
pH value	not determined					
boiling point	-24 °C					
melting point	not determined					
Flash point	not applicable				Aerosol	
Vapourisation rate	not determined					
Flammable (solid)	not applicable					
Flammability (gas)	not determined					
Ignition temperature	> 200 °C				estimate	
Self ignition temperature	not determined					
Lower explosion limit	not determined					
Upper explosion limit	not determined					
Vapour pressure	not determined					
Relative density	not determined					
Vapour density	not determined					
Solubility in water					No or low immiscibil	
Solubility/other	not determined					
Partition coefficient n- octanol/water (log P O/W)	not determined					
Decomposition temperature	not determined					
Viscosity dynamic	not determined					
Viscosity kinematic	not determined					



#### Oxidising properties

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 information available.

# **10.2. Chemical stability** No information available.

**10.3. Possibility of hazardous reactions** No information available.

# 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

Carbon monoxide and carbon dioxide.

#### **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
LD50 acute oral	> 5000 mg/kg			ATE
LD50 acute dermal	> 5000 mg/kg			ATE
LC50 acute inhalation	> 5 mg/l ()		dust/mist	ATE
Skin irritation	irritant			
Eye irritation	irritant			
Skin sensitization	non-sensitizing			
Subacute Toxicity - Carcinogenicity				



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 Value
 Species
 Method
 Validation

 No experimental information on genotoxicity in vitro available.
 No indications of toxic effects were observed in reproduction studies in animals.

No indications of carcinogenic effects are available from long-term trials.

#### Experiences made from practice

Often and long skin contact may cause degreasing and desiccation of the skin which may caus skin irritation. May irritate the mucosae. Irritates eyes and skin. Inhalation causes narcotic effect/intoxication.

#### ! Additional information

Mutagenicity

**Reproduction-**

Carcinogenicity

Toxicity

The product is to be handled with the caution usual with chemicals. Other hazardous properties may not be excluded. The product has not been tested. The information is derived from the properties of the individual components.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No information available.

#### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

#### 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.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

# **! 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.

Dispose of as hazardous waste.



#### **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. Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

# **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
<b>14.6. Special precautions for</b> No information available.			
14.7. Transport in bulk accord not applicable	ding to Annex II of MARPO	DL 73/78 and the IBC Code	
Land and inland navigation to Hazard label(s) 2.1 tunnel restriction code D Classification code 5F transport in "limited quantities"		ssible	
Marine transport IMDG MARINE POLLUTANT			

#### **! 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.



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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: 8.5

- 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.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312, -?-
- H332 Causes severe skin burns and eye damage.
- 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 (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.