



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

Name of product	Zinc Spray (GB) Code-Nr. 11000
Manufacturer/distributor	WEICON GmbH & Co. KG Königsberger Straße 255, DE-48157 Münster Postbox 84 60, DE-48045 Münster Phone ++49(0)251 / 9322 - 0, Fax ++49(0)251 / 9322-244 E-Mail : info@weicon.de Internet : www.weicon.de
Advice	Abteilung Angebote, Verkauf, Export Phone ++49(0)251 / 9322 - 0
Emergency advice	Giftnotruf Bonn: Bei Vergiftungen (in case of poisoning) Phone ++49(0)228-19 240
Recommended intended purpose(s)	Technical Aerosols

2. HAZARDS IDENTIFICATION

Classification

F+; R12
N; R50/53

R-phrases

12 Extremely flammable.
50/53 Very 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
	231-072-3	aluminium powder (stabilised)	<= 2,5	F R15; R10
7440-66-6	231-175-3	zinc powder - zinc dust (stabilized)	10 - 24	N R50-53
115-10-6	204-065-8	dimethylether	50 - 99	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	2,5 - 10	R10; Xn R20/21; Xi R38
3006-13-1	221-108-6	Dodecylethyl(dimethylammonium ethyl sulphate	<= 2,5	Xn R22; N R50/53



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.

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.

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 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.

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]	[ppm]	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
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	50		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.

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.

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

safety goggles

**Zinc Spray (GB)****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
boiling point	-24 °C				
Flash point	ca. -42 °C				
Ignition temperature	365 °C				
Lower explosion limit	1,1 Vol-%				
Upper explosion limit	18,6 Vol-%				
Vapour pressure	5200 hPa	20 °C			
Density	not determined				
Solubility in water					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.

Hydrogen formation in heat under influence of acids and alkalies.

Materials to avoid

Reactions with acids, alkalies and oxidising agents.

Hazardous decomposition products

carbon monoxide and carbon dioxide

Hydrogen

Thermal decomposition

Remark No decomposition if used as directed.



11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
Irritability skin	non-irritant			
Irritability eye	non-irritant			
Skin sensitization	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/EC.

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.

15 01 10*

Name of waste

packaging containing residues of or contaminated by 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, (D), Classification code: 5F
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

Transport/further information

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



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.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

- 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 on a naked flame or any incandescent material.

Without sufficient ventilation the formation of explosive vapour/air mixtures cannot be excluded. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

VOC standard

VOC value 0,223 g/L

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 3 (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.