

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

**Name of product** Zinc Spray -bright grade (GB)  
Art.-Nr. 0690 101 400

**Relevant identified uses of the substance or mixture and uses advised against  
Recommended intended purpose(s)**

Technical Aerosols

**Details of the supplier of the safety data sheet****Manufacturer/distributor**

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**Advice**

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**Emergency telephone number****Emergency advice**

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**SECTION 2: Hazards identification****Classification of the substance or mixture****Classification according to 67/548/EEC or 1999/45/EC**

F+; R12  
N; R50/53  
R67

**R-phrases**

12 Extremely flammable.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
67 Vapours may cause drowsiness and dizziness.

**Label elements****Labelling according to 67/548/EEC or 1999/45/EC****Remarks for labelling**

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

**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.  
67 Vapours may cause drowsiness and dizziness.

**S-phrases**

23 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.

**Special rules for supplemental label elements for certain mixtures**

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.

**Other hazards**
**Information pertaining to special dangers for human and environment**

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

**SECTION 3: Composition/ information on ingredients**
**Mixtures**
**Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
67-64-1	200-662-2	acetone	2,5 - 10	F R11; Xi R36; R66; R67
71-36-3	200-751-6	butan-1-ol	<= 2,5	R10; Xn R22; Xi R37/38-41; R67
7440-66-6	231-175-3	zinc powder - zinc dust (stabilized)	2,5 - 10	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
64742-48-9	265-150-3	Naphtha (petroleum), hydrotreated heavy	2,5 - 10	R10; Xn R65; R66; R67
7429-90-5	231-072-3	aluminium powder (stabilised)	2,5 - 10	R10-15
3006-13-1	221-108-6	Dodecylethylidimethylammonium ethyl sulphate	<= 2,5	Xn R22; N R50/53

  

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
67-64-1	200-662-2	acetone	2,5 - 10	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
71-36-3	200-751-6	butan-1-ol	<= 2,5	Flam. Liq. 3, H226 / Acute Tox. 4, H302 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / STOT SE 3, H336
7440-66-6	231-175-3	zinc powder - zinc dust (stabilized)	2,5 - 10	Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
115-10-6	204-065-8	dimethylether	50 - 99	Flam. Gas 1, H220 / Press. Gas
123-86-4	204-658-1	n-butyl acetate	2,5 - 10	Flam. Liq. 3, H226 / STOT SE 3, H336
141-78-6	205-500-4	ethyl-acetate	2,5 - 10	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
1330-20-7	215-535-7	xylene	2,5 - 10	Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Acute Tox. 4, H312 / Skin Irrit. 2, H315
64742-48-9	265-150-3	Naphtha (petroleum), hydrotreated heavy	2,5 - 10	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H336 / , EUH066
7429-90-5	231-072-3	aluminium powder (stabilised)	2,5 - 10	
3006-13-1	221-108-6	Dodecylethylidimethylammonium ethyl sulphate	<= 2,5	Acute Tox. 4, H302 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

**Description**

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

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**SECTION 4: First aid measures****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. Refer

to medical treatment.

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

No information available.

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

No information available.

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**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**

Dry powder

Carbon dioxide

sand

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

water

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

Danger of bursting

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

**Advice for firefighters****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.

Cool endangered containers with water spray jet.

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****Personal precautions, protective equipment and emergency procedures**

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 and material for containment and cleaning up**

Take up with absorbent material.

After taking up the material dispose according to regulation.

**Reference to other sections**

No information available.

**SECTION 7: Handling and storage****Precautions for safe handling****Advice on safe handling**

Ventilate closed rooms at ground level.

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.

The product is combustible.

Vapours can form an explosive mixture with air.

Avoid effect of heat.

**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.

**Advice on storage compatibility**

Do not store with combustible materials.

**Further information on storage conditions**

Protect from heat and direct solar radiation.

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

Store container at cool and aired place.

Keep in a cool place, heat causes increase in pressure and risk of bursting.

**Specific end use(s)**

No information available.

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

CAS No	Name	Code	[mg/m <sup>3</sup> ]	[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
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	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/m <sup>3</sup> ]	[ppm]	Remark
115-10-6	dimethylether	8 hours	1920	1000	
1330-20-7	xylene, mixed isomers, pure	8 hours	221	50	skin
		Short-term	442	100	

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

CAS No	Name	Code	[mg/m <sup>3</sup> ]	[ppm]	Remark
67-64-1	acetone	8 hours	1210	500	

**Exposure controls****Respiratory protection**

If ventilation insufficient, wear respiratory protection.

**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**

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.

Wash hands before breaks and after work.

**SECTION 9: Physical and chemical properties****Information on basic 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>	-42 °C				
<b>Ignition temperature</b>	235 °C				
<b>Lower explosion limit</b>	3 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>					immiscible

**Explosive properties**

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

**Other information**

Vapours are heavier than air.

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**SECTION 10: Stability and reactivity****Reactivity**

No information available.

**Chemical stability**

No information available.

**Possibility of hazardous reactions**

No information available.

**Conditions to avoid**

Keep away from heat.

Formation of explosive gas/air mixtures.

Hydrogen formation in heat under influence of acids and alkalies.

**Incompatible materials**

No information available.

**Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

Hydrogen

**Thermal decomposition**

Remark No decomposition if used as directed.

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**SECTION 11: Toxicological information****Information on toxicological effects****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

**Additional information**

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

Other hazardous properties may not be excluded.

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

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**SECTION 12: Ecological information****Toxicity**

No information available.

**Persistence and degradability**

No information available.

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available.

**Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**Other adverse effects****General regulation**

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into aquatic environment.

**SECTION 13: Disposal considerations****Waste treatment methods****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.

**SECTION 14: Transport information****Land and inland navigation transport ADR/RID**

UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS, Classification code: 5F  
transport in "limited quantities" according to 3.4 ADR is possible

**Marine transport IMDG**

UN 1950 AEROSOLS (ZINC POWDER), 2.1

MARINE POLLUTANT: Yes

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

**Air transport ICAO/IATA-DGR**

UN 1950 Aerosols, flammable, 2.1

ENVIRONMENTALLY HAZARDOUS: Yes

**Transport/further information**

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

**Special precautions for user**

No information available.

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

not applicable

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC standard****Remark**

Daten separat anfragen / Request data separately.

**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.

**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/H-phrases specified in chapter 3 (not the classification of the mixture!)**

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 37/38 Irritating to respiratory system and skin.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

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

R 65 Harmful: may cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

EUH066 -?-

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.