

## ZG 90 Cold Zinc Galvanise Aerosol

# SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

### 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier**

Product Name	ZG 90 Cold Zinc Galvanise Aerosol.
Trade Name	ZG 90 Cold Zinc Galvanise Aerosol.
Part No's.	1785 & 2032.
CAS No.	Mixture.
EINECS No.	Mixture.
REACH Registration No.	None assigned.

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

Identified use(s)	Surface coating.
Uses advised against	None known.

**1.3 Details of the supplier of the Safety Data Sheet**

Company Identification

Telephone

Fax

E-mail

**1.4 Emergency telephone number**

Emergency Phone No.

### 2. SECTION 2: HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

**Regulation (EC) No. 1272/2008 (CLP)**

Aerosol 1; Extremely flammable aerosol.  
Pressurised container: May burst if heated.  
Eye Irrit. 2; Causes serious eye irritation.  
STOT SE 3; May cause drowsiness or dizziness.  
Aquatic Chronic 2; Toxic to aquatic life with long lasting effects.  
Repeated exposure may cause skin dryness or cracking.

**2.2 Label elements**

Product Name  
Hazard pictogram(s)

According to Regulation (EC) No. 1272/2008 (CLP)  
ZG 90 Cold Zinc Galvanise Aerosol.



GHS02

GHS07

GHS09

Signal word(s)

Danger.



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Hazard statement(s)	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long lasting effects. EUH066: Repeated exposure may cause skin dryness or cracking.
Precautionary statement(s)	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. P280: Wear protective gloves/protective clothing/eye protection/face protection. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>2.3 Other hazards</b>	None.
<b>2.4 Additional Information</b>	For full text of H/P phrases see section 16.

### 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

#### 3.1 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Dimethyl ether	50 – 80	115-10-6	204-065-8	None assigned	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas: Liquefied gas; H280
Zinc Dust Super Fine	<25	7440-66-6	231-175-3	None assigned	GHS09, Aquatic Acute 1; H400, Aquatic Chronic 1; H410
n-butyl acetate	2.5-10	123-86-4	204-658-1	None assigned	GHS02, Flam. Liq. 3; H226, GHS07, STOT SE 3; H336, EUH066
Butanone	2.5-10	78-93-3	201-159-0	None assigned	GHS02, Flam. Liq. 2; H225, GHS07, Eye Irrit. 2; H319, STOT SE 3; H336, EUH066
Ethyl acetate	≤2.5	141-78-6	205-500-4	None assigned	GHS02, Flam. Liq. 2; H225, GHS07, Eye Irrit. 2; H319, STOT SE 3; H336, EUH066
Toluene	≤2.5	108-88-3	203-625-9	None assigned	GHS02, Flam. Liq. 2; H225, GHS07, Skin Irrit. 2; H315, STOT SE 3; H336, GHS08, Asp. Tox. 1; H304, Repr. 2; H361d, STOT RE 2; H373
Aluminium	≤2.5	7429-90-5	231-072-3	None assigned	GHS02, Pyr. Sol. 1; H250, Water-react. 2; H261



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Solvent naphtha (petroleum), light arom.	≤2.5	64742-95-6	265-199-0	None assigned	GHS02, Flam. Liq. 3; H226 GHS07, Acute Tox. 4; H332, Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335 GHS08, Asp. Tox. 1; H304 GHS09, Aquatic Chronic 2; H411
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### 3.2 Additional Information

For full text of H/P phrases see section 16.

## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact

After contact with skin, wash immediately with plenty of soap and water.

Eye Contact

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.

Ingestion

Unlikely route of exposure. IF SWALLOWED: Rinse mouth.

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

May cause drowsiness or dizziness.

Causes serious eye irritation.

Repeated exposure may cause skin dryness or cracking.

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

Unlikely to be required but if necessary treat symptomatically.

## 5. SECTION 5: FIRE-FIGHTING MEASURES

Pressurised container: May burst if heated.

### 5.1 Extinguishing Media

Suitable Extinguishing Media

In case of fire: Use water spray, dry powder or carbon dioxide to extinguish.

Unsuitable Extinguishing Media

Do not use water jet.

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

Heating may cause pressure rise with risk of bursting.

### 5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Keep fire exposed containers cool by spraying with water.



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### 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

- 6.1 Personal precautions, protective equipment and emergency procedures** Eliminate sources of ignition. Ensure adequate ventilation. Stop leak if safe to do so. Avoid breathing vapours. Wear protective gloves/eye protection/face protection.
- 6.2 Environmental precautions** Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
- 6.3 Methods and material for containment and cleaning up** Collect mechanically and dispose of according to Section 13. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery. Containers must not be punctured or destroyed by burning, even when empty.
- 6.4 Reference to other sections** See Also Section: 8, 13.

### 7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** 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. Use only outdoors or in a well-ventilated area. Avoid breathing vapours. Wear protective gloves/eye protection/face protection. Wash hands and exposed skin after use.
- 7.2 Conditions for safe storage, including any incompatibilities** Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed.  
Storage Temperature  
Storage Life  
Incompatible materials
- 7.3 Specific end use(s)** Strong oxidising agents, Acids.  
Surface coating.

### 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- 8.1.1 Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Dimethyl ether	115-10-6	400	766	500	958	WEL
n-butyl acetate	123-86-4	150	724	200	966	WEL
Butanone	78-93-3	200	600	300	899	WEL
Ethyl acetate	141-78-6	200	730	400	1460	WEL
Toluene	108-88-3	50	191	100	384	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

- 8.1.2 Biological limit value** Not established.
- 8.1.3 PNECs and DNELs** Not established.

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<b>8.2 Exposure controls</b>	
<b>8.2.1 Appropriate engineering controls</b>	Provide adequate ventilation. Use only outdoors or in a well-ventilated area.
<b>8.2.2 Personal protection equipment</b>	
Eye/face protection	Wear eye protection with side protection (EN166).
	
Skin protection (Hand protection/ Other)	Wear suitable gloves if prolonged skin contact is likely. Wear impervious gloves (EN374).
	
Respiratory protection	Wear suitable respiratory protective equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.
	
Thermal hazards	Not applicable.
<b>8.2.3 Environmental Exposure Controls</b>	Avoid release to the environment.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Aerosol.
Colour	Grey.
Odour	Characteristic.
Odour Threshold	Not determined.
pH	Not determined.
Melting Point/Freezing Point	Not determined.
Initial boiling point and boiling range	-24 °C
Flash Point	-42 °C
Evaporation rate	Not applicable.
Flammability (solid, gas)	Aerosol 1; Extremely flammable aerosol.
Upper/lower flammability or explosive limits	3.0 – 18.6 Vol-%
Density	0.738 g/cm <sup>3</sup> @ 20 °C
Vapour pressure	5200 hPa @ 20 °C
Vapour density	Not available.
Relative density	Not determined.
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	The product is not self-igniting.
Ignition temperature	235 °C
Decomposition Temperature	Not determined.
Dynamic viscosity	Not determined.
Kinematic Viscosity	Not determined.
Explosive properties	Not explosive.
	Pressurised container: May burst if heated.
Oxidising properties	Not oxidising.
<b>9.2 Other information</b>	
Organic solvents	None.
Solid Content	88.7%
	10.5%



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ISO 9001

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### 10. SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	Stable under normal conditions.
10.4	Conditions to avoid	Heat and direct sunlight.
10.5	Incompatible materials	Strong oxidising agents, Acids.
10.6	Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide.

### 11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
11.1.1	Mixtures	
	Acute toxicity	
	Oral	Low oral toxicity.
	Inhalation	May cause drowsiness or dizziness.
	Irritation	Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.
	Corrosivity	Not classified.
	Sensitisation	It is not a skin sensitiser.
	Repeated dose toxicity	None anticipated.
	Carcinogenicity	No evidence of carcinogenicity.
	Mutagenicity	There is no evidence of mutagenic potential.
	Toxicity for reproduction	None anticipated.
11.2	Other information	None.

### 12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Toxic to aquatic life with long lasting effects.
12.2	Persistence and degradability	The product is readily biodegradable.
12.3	Bioaccumulative potential	The product has low potential for bioaccumulation.
12.4	Mobility in soil	Insoluble in water. The product is predicted to have low mobility in soil.
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None.

### 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility. Do NOT landfill.
13.2	Additional Information	Disposal should be in accordance with local, state or national legislation. Do not allow to enter drains, sewers or watercourses.



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### 14. SECTION 14: TRANSPORT INFORMATION

<b>14.1 UN number</b>	UN 1950
<b>14.2 UN Proper Shipping Name</b>	AEROSOLS.
ADR/RID/ADN/IMDG	AEROSOLS, FLAMMABLE.
ICAO/IATA	
<b>14.3 Transport hazard class(es)</b>	
ADR/RID/ADN	2
IMDG/ICAO/IATA	2.1
<b>14.4 Packing Group</b>	None.
<b>14.5 Environmental hazards</b>	Classified as a Marine Pollutant.
<b>14.6 Special precautions for user</b>	None.
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>14.8 Additional Information</b>	
IMDG Code	F-D, S-U
Limited Quantity (LQ)	1 L

### 15. SECTION 15: REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>					
<b>15.1.1 EU regulations</b>					
Authorisations and/or restrictions on use					
Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed.				
REACH: ANNEX XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles	Listed: Toluene (CAS No.: 108-88-3)				
REACH: ANNEX XIV List of substances subject to authorisation	All chemicals are not listed.				
Community Rolling Action Plan (CoRAP); Draft 26/03/2014	Listed: Toluene (CAS No.: 108-88-3)				
<b>15.1.2 National regulations</b>	None known.				
Technical Instructions (air)	<table border="1"><thead><tr><th>Class</th><th>Share in %</th></tr></thead><tbody><tr><td>NK</td><td>88.7</td></tr></tbody></table>	Class	Share in %	NK	88.7
Class	Share in %				
NK	88.7				
Germany	WGK 1 (Slightly hazardous for water.)				
<b>15.2 Chemical Safety Assessment</b>	Not available.				

### 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

#### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
ADN	European transport by inland waterways
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)



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ICAO	International transport by air
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
RID	European transport by rail
WGK	Wassergefährdungsklasse (Germany)
Acute Tox. 4	Acute toxicity Category 4
Aerosol 1	Aerosol Category 1
Aquatic Acute 1	Hazardous to the aquatic environment Acute Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment Chronic Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment Chronic Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2	Serious eye damage/irritation Category 2
Flam. Gas 1	Flammable gas Category 1
Flam. Liq. 2	Flammable Liquid Category 2
Flam. Liq. 3	Flammable Liquid Category 3
Press. Gas	Gases under pressure
Pyr. Sol. 1	Pyrophoric solid Category 1
STOT RE 2	Specific target organ toxicity — repeated exposure Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Skin Irrit. 2	skin corrosion/irritation Category 2
Repr. 2	Reproductive toxicity Category 2
Water-react. 2	Substance or mixture which in contact with water emits flammable gas Category 2

### Hazard Statement(s) and Precautionary Statement(s)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H250	Catches fire spontaneously if exposed to air.
H261	In contact with water releases flammable gases.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
P261	Avoid breathing vapours.
P264	Wash (hands and exposed skin) thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P312	Call a POISON CENTER/doctor if you feel unwell.
P391	Collect spillage.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.



## ZG 90 Cold Zinc Galvanise Aerosol

### Hazard Pictogram(s)

GHS02



GHS08



GHS04



GHS09



GHS07



### Disclaimers

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### Annex to the extended Safety Data Sheet (eSDS)

No information available.