Certificate Number :768QM8001
Original Certificate Number :768/95

ZG-90 Cold Zinc Galvanising Paint

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 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 Galvanising Paint.
Trade Name	ZG-90 Cold Zinc Galvanising Paint.
Part No.	2032, 1785, 1938, 1937, 1936, 1935, 1939
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)	Coating compound/ surface.
Uses advised against	Do not mix with other chemicals.

1.3 Details of the supplier of the Safety Data Sheet

Company Identification	Action Can Ltd., Dixon Close, Old Boston Trading Estate, Haydock, St. Helens, Merseyside. Wa11 9SF.
Telephone	01942 713667
Fax	01942 716235
E-Mail (competent person)	info@actioncan.com

1.4 Emergency telephone number

Emergency Phone No.	01942 713667 (Mon – Fri: 9am to 5pm)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Directive 67/548/EEC & Directive 1999/45/EC

F+; Extremely flammable.
Vapours may cause drowsiness and dizziness.
Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

According to Directive 67/548/EEC & Directive 1999/45/EC

Product Name: ZG-90 Cold Zinc Galvanising Paint.

Hazard Symbol



Risk Phrases

R12: Extremely flammable.
R67: Vapours may cause drowsiness and dizziness.
R15: Contact with water liberates extremely flammable gases.
R20/21: Harmful by inhalation and in contact with skin.
R36/38: Irritating to eyes and skin.
R51/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

ZG-90 Cold Zinc Galvanising Paint

R65: Harmful: may cause lung damage if swallowed.

Safety Phrases

S16: Keep away from sources of ignition - No smoking.
S23: Do not breathe vapour/spray.
S51: Use only in well-ventilated areas.
S61: Avoid release to the environment. Refer to special instructions/Safety Data Sheets.

Additional Information

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.
Keep out of the reach of children.
Wear Gloves during use.
Wear eye protection during use.
Wear a mask during use.

2.3 Other hazards None.

2.4 Additional Information None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Dimethyl ether	50 - 100	115-10-6	204-065-8	None assigned	F+; R12
n-butyl acetate	2.5 - 10	123-86-4	204-658-1	None assigned	R10, R66, R67
Butanone	2.5 - 10	78-93-3	201-159-0	None assigned	F; R11, Xi; R36, R66, R67
Ethyl acetate	≤2.5	141-78-6	205-500-4	None assigned	F; R11, Xi; R36, R66, R67
Acetone	≤2.5	67-64-1	200-662-2	None assigned	F; R11, Xi; R36, R66, R67
Toluene	≤2.5	108-88-3	203-625-9	None assigned	F; R11, Repr. Cat 3; R63, Xn; R48/20, R65, Xi; R38, R67
Solvent naphtha (petroleum), light arom.	≤2.5	64742-95-6	265-199-0	None assigned	Carc. Cat 2; R45, Muta. Cat 2; R46, Xn; R65

3.2 Additional Information

For full text of R phrases see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

If breathing is difficult, remove victim to fresh air and keep at

		rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.
	Skin Contact	Wash skin with soap and water. If irritation develops and persists, get medical attention.
	Eye Contact	Remove any contact lenses. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If symptoms develop, obtain medical attention.
	Ingestion	Unlikely route of exposure.
4.2	**Most important symptoms and effects, both acute and delayed**	Unlikely to be required but if necessary treat symptomatically.
4.3	**Indication of any immediate medical attention and special treatment needed**	No special requirements.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1	**Extinguishing Media**	
	Suitable Extinguishing Media	Extinguish with waterspray, dry chemical, sand or carbon dioxide.
	Unsuitable Extinguishing Media	Water jet spray.
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.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Keep away from sources of ignition. Ensure adequate ventilation.
6.2	**Environmental precautions**	Do not allow to enter drains, sewers or watercourses.
6.3	**Methods and material for containment and cleaning up**	Place leaking cans in a bucket or pail to minimise product contamination of surfaces. Leaked product will render floors very slippery. Adsorb spillages onto sand, earth or any suitable adsorbent material.
6.4	**Reference to other sections**	See Also Section 7, 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Do not spray on a naked flame or any incandescent material. Do not pierce or burn, even after use. Keep away from: Electrostatic charge. Wash hands thoroughly after handling.
7.2	**Conditions for safe storage, including any incompatibilities**	Protect from sunlight. Store in dry place. Keep in a well ventilated place.
	Storage Temperature	Do not expose to temperatures exceeding 50°C/ 122°F.
	Storage Life	Stable under normal conditions.
	Incompatible materials	None known.
7.3	**Specific end use(s)**	Coating compound/ surface.

ZG-90 Cold Zinc Galvanising Paint

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/m³)	STEL (ppm)	STEL (mg/m³)	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 (Sk)
Ethyl acetate	141-78-6	200	-	400	-	WEL
Acetone	67-64-1	500	1210	1500	3620	WEL
Toluene	108-88-3	50	191	100	384	WEL (Sk)

WEL: Workplace Exposure Limit (UK HSE EH40)
Sk - Can be absorbed through skin.

8.1.2 Biological limit value — Not established.

8.1.3 PNECs and DNELs — Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls — Provide adequate ventilation.

8.2.2 Personal protection equipment

Eye/face protection



Wear eye protection with side protection (EN166).
If product enters eyes rinse with clean water and seek medical attention.

Skin protection (Hand protection/Other)



Wear suitable gloves if prolonged skin contact is likely.
Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Respiratory protection



Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.

Thermal hazards — Not applicable.

8.2.3 Environmental Exposure Controls — Do not allow to enter drains, sewers or watercourses.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Silver.
Odour	Characteristic.
Odour Threshold	Not determined.
pH	Not determined.

	Melting Point/Freezing Point	Not available.
	Initial boiling point and boiling range	Not available.
	Flash point	-42°C
	Evaporation rate	Not determined.
	Flammability (solid, gas)	Extremely flammable.
	Upper/lower flammability or explosive limits	3.0 – 18.6 Vol-%
	Vapour pressure	5200 hPa @ 20°C
	Vapour density	Not available.
	Relative density	Not determined.
	Density	0.738 g/cm³
	Solubility(ies)	Immiscible.
	Partition coefficient: n-octanol/water	Not determined.
	Auto-ignition temperature	The product is not self-igniting.
	Ignition temperature	235°C
	Decomposition Temperature	Not available.
	Viscosity	Not available.
	Explosive properties	Contains gas under pressure; may explode if heated.
	Oxidising properties	No information available.
9.2	**Other information**	None.

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**	None known.
10.6	**Hazardous Decomposition Product(s)**	None.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixtures

Acute toxicity

Ingestion	Solvent naphtha (petroleum), light arom.: LD50 (rat) >6800mg/kg
Inhalation	Vapours may cause drowsiness and dizziness. Solvent naphtha (petroleum), light arom.: LC50 (rat) [4 hour(s)] >10.2mg/l
Dermal	Solvent naphtha (petroleum), light arom.: LD50 (rabbit) >3400mg/kg
Irritation	Non-irritant.
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**	Low toxicity to aquatic organisms.
12.2	**Persistence and degradability**	No information available.
12.3	**Bioaccumulative potential**	No information available.
12.4	**Mobility in soil**	Immiscible with water.
12.5	**Results of PBT and vPvB assessment**	Not classified as PBT or vPvB.
12.6	**Other adverse effects**	None.
12.7	**Additional Information**	WGK class 1 (official). Slightly hazardous for water.

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.
13.2	**Additional Information**	Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1	**UN number**	UN 1950
14.2	**UN proper shipping name**	AEROSOLS.
14.3	**Transport hazard class(es)**	2.1
14.4	**Packing Group**	II
14.5	**Environmental hazards**	Not classified as a Marine Pollutant.
14.6	**Special precautions for user**	None.
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
14.8	**Additional Information**	
14.8.1	Tunnel Restriction Code	D
14.8.2	IMDG Code	EmS: F-D, S-U

15. SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations and/or restrictions on use

Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed.
REACH: ANNEX XIV LIST OF SUBSTANCES SUBJECT TO 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). Item 48 of Annex XVII: Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0.1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.
Community Rolling Action Plan (CoRAP); Draft 29/02/2012	Listed: Toluene (CAS No. 108-88-3).

15.1.2 National regulations None known.
15.2 Chemical Safety Assessment 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
WGK	Wassergefährdungsklasse (Germany)
Carc. Cat 2	Carcinogen Category 2
Muta. Cat 2	Mutagenic Category 2
Repr. Cat 3	Reproductive toxicity Category 3
F+	Extremely flammable
F	Highly flammable
Xi	Irritant
Xn	Harmful

Risk Phrases

R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R36	Irritating to eyes.
R38	Irritating to skin.
R45	May cause cancer.
R46	May cause heritable genetic damage.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose.
Action Can Ltd. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Action Can Ltd. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

Annex to the extended Safety Data Sheet (eSDS)

No information available.