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

1.1. Product identifier

GALVANIZING ZINC RICH
Aerosol

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

Paints

1.3. Details of the supplier of the safety data sheet

CRC Industries UK Ltd.
Ambersil House - Wylds Road
Castlefield Industrial Estate
TA6 4DD Bridgwater Somerset
United Kingdom
Tel.: +44 1278 727200
Fax.: +44 1278 425644
E-mail : hse.uk@crcind.com

1.4. Emergency telephone number

(+44)(0)1278 72 7200

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC:

Health:	not classified
Physical:	EXTREMELY FLAMMABLE
Environment:	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Warning symbol(s) : EXTREMELY FLAMMABLE

N : DANGEROUS FOR THE ENVIRONMENT

Risk-phrase(s) :	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety-phrase(s) :	S2: Keep out of the reach of children. S16: Keep away from sources of ignition - No smoking. S23: Do not breathe vapours/spray. S35: This material and its container must be disposed of in a safe way. S51: Use only in well-ventilated areas.
Extra label elements according to Aerosol Dispenser Directive 75/324/EC:	Pressurised 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 adequate ventilation formation of explosive mixtures may be possible.

2.3. Other hazards

None

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Hazardous ingredient	CAS-nr.	EC-nr	w/w %	symbol	R-phrases*	Notes
methylal	109-87-5	203-714-2	60-100	F	11	B
zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3	2.5-10	N	50/53	
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	203-539-1	2.5-10		10-67	A
carbon dioxide	124-38-9	204-696-9	5-10	-	-	A,G
Naphtha (petroleum), hydrotreated light	64742-49-0	265-151-9	1-5	F,Xn,N	11-38-51/53-65-67	B,P
n-butyl acetate	123-86-4	204-658-1	1-5		10-66-67	
xylene	1330-20-7	215-535-7	1-5	Xn	10-20/21-38	A
2-(3-heptyl)-N-butyl-1,3-oxazolane	165101-57-5	425-660-0	0-1	N	51/53	
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	265-185-4	0-1	Xn	65	B,P
Solvent naphtha (petroleum), light arom. (benzene<0.1%)	64742-95-6	265-199-0	0-1	Xn	65	B,P
methanol	67-56-1	200-659-6	0-1	F,T	11-23/24/25-39/23/24/25	A
butan-1-ol; n-butanol	71-36-3	200-751-6	0-1	Xn	10-22-37/38-41-67	B
1,2,4-trimethylbenzene	95-63-6	202-436-9	0-1	Xn,N	10-20-36/37/38-51/53	A
ethylbenzene	100-41-4	202-849-4	0-1	F,Xn	11-20	A
mesitylene1,3,5-trimethylbenzene	108-67-8	203-604-4	0-1	Xi,N	10-37-51/53	A
zinc oxide	1314-13-2	215-222-5	0-1	N	50/53	B

Explanation notes
A : substance with Community workplace exposure limit
B : substance with national established workplace exposure limit
G : exempted from the obligation to register in accordance with art.2(7)(a)of REACH Regulation No 1907/2006

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P : not classified as carcinogen, less than 0.1% w/w benzene (Einecs-nr. 200-753-7)

Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
zinc powder - zinc dust (stabilized)		7440-66-6	231-175-3	2.5-10	Aquatic Acute 1, Aquatic Chronic 1	H400,H410	
1-methoxy-2-propanol; monopropylene glycol methyl ether	01-2119457435-35	107-98-2	203-539-1	2.5-10	Flam. Liq. 3, STOT SE 3	H226,H336	A
carbon dioxide		124-38-9	204-696-9	5-10	Press. Gas	H280	A,G
n-butyl acetate	01-2119485493-29	123-86-4	204-658-1	1-5	Flam. Liq. 3, STOT SE 3	H226,H336	
xylene		1330-20-7	215-535-7	1-5	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2	H226,H332,H312,H315	A
butan-1-ol; n-butanol	01-2119484630-38	71-36-3	200-751-6	0-1	Flam. Liq. 3, Acute Tox. 4, STOT SE 3, Skin Irrit. 2, Eye Dam. 1, STOT SE 3	H226,H302,H335,H315,H318,H336	B
1,2,4-trimethylbenzene	ABNA	95-63-6	202-436-9	0-1	Flam. Liq. 3, Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Aquatic Chronic 2	H226,H332,H319,H335,H315,H411	A
ethylbenzene		100-41-4	202-849-4	0-1	Flam. Liq. 2, Acute Tox. 4	H225,H332	A
mesitylene1,3,5-trimethylbenzene		108-67-8	203-604-4	0-1	Flam. Liq. 3, STOT SE 3, Aquatic Chronic 2	H226,H335,H411	A
zinc oxide		1314-13-2	215-222-5	0-1	Aquatic Acute 1, Aquatic Chronic 1	H400,H410	B
methanol		67-56-1	200-659-6	0-1	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1	H225,H331,H311,H301,H370	A

Explanation notes

A : substance with Community workplace exposure limit

B : substance with national established workplace exposure limit

G : exempted from the obligation to register in accordance with art.2(7)(a)of REACH Regulation No 1907/2006

(* Explanation phrases : see chapter 16)

SECTION 4: First aid measures

4.1. Description of first aid measures

Contact with eyes : If substance has got into eyes, immediately wash out with plenty of water
Seek medical attention if irritation persists

Contact with skin : Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water
Seek medical attention if irritation persists

Inhalation : Fresh air, keep warm and at rest.
Seek medical attention if ill effects occur

Ingestion : If swallowed accidentally, do not induce vomiting and seek medical advice.

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

Inhalation : Excessive inhalation of solvent vapours may give rise to nausea, headaches

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	and dizziness
Ingestion :	May cause gastrointestinal disturbances Symptoms : sore throat, abdominal pain, nausea, vomiting
Skin contact :	May cause irritation. Symptoms : redness and pain
Eye contact :	May cause irritation. Symptoms : redness and pain

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

General Advice :	If you feel unwell, seek medical advice (show the label where possible If symptoms persist always call a doctor

SECTION 5: Firefighting measures

5.1. Extinguishing media

foam, carbon dioxide or dry agent

5.2. Special hazards arising from the substance or mixture

Aerosols may explode if heated above 50°C
Forms hazardous decomposition products
CO,CO2

5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water
In case of fire, do not breathe fumes

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources
Ensure adequate ventilation
Wear suitable protective clothing and gloves.

6.2. Environmental precautions

Do not allow to enter public sewers and watercourses
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3. Methods and material for containment and cleaning up

Absorb spillage in suitable inert material
Place in appropriate container

6.4. Reference to other sections

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For further information see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from heat and sources of ignition
Take precautionary measures against static discharges
Equipment should be earthed
Use explosion-proof electrical/ventilating/lighting/.../equipment.
Use only non-sparking tools.
Do not breathe aerosols or vapours.
Ensure adequate ventilation
Avoid contact with skin and eyes.
Wash thoroughly after use
Wear protective gloves/protective clothing/eye protection/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.
Keep in a cool, dry, well ventilated place
Keep out of reach of children.

7.3. Specific end use(s)

Paints

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits :

Hazardous ingredient	CAS-nr.	method	
EU established exposure limits:			
ethylbenzene	100-41-4	TWA	100 ppm
		STEL	200 ppm
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	TWA	100 ppm
		STEL	150 ppm
mesitylene1,3,5-trimethylbenzene	108-67-8	TWA	20 ppm
carbon dioxide	124-38-9	TWA	5000 ppm
xylene	1330-20-7	TWA	50 ppm
		STEL	100 ppm
methanol	67-56-1	TWA	200 ppm
1,2,4-trimethylbenzene	95-63-6	TWA	20 ppm

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National established exposure limits, United Kingdom			
ethylbenzene	100-41-4	TWA	100 ppm
		STEL	125 ppm
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	TWA	100 ppm
		STEL	150 ppm
n-butyl acetate	123-86-4	TWA	150 ppm
		STEL	200 ppm
carbon dioxide	124-38-9	TWA	5000 ppm
		STEL	15000 ppm
xylene	1330-20-7	TWA	50 ppm
		STEL	100 ppm
methanol	67-56-1	TWA	200 ppm
		STEL	250 ppm

8.2. Exposure controls

Control procedures :	Ensure adequate ventilation Keep away from heat and sources of ignition Take precautionary measures against static discharges
Personal protection :	Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation
inhalation :	In case of insufficient ventilation, wear suitable respiratory equipment.
	Air purifying respirator equiped with organic gas/vapor cartridge (type A or AX)
hands and skin :	Wear suitable protective gloves
	(polyvinylalcohol)
eyes :	Wear safety goggles.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(for aerosols data for the product without propellant)

Apperance : physical state :	CO2 propelled liquid.
colour :	Grey.
odour :	Characteristic odor.
pH :	Not applicable.
Boiling point/range :	Not available.
Flash point :	< 21 °C
Explosion limits : upper limit :	Not available.
lower limit :	Not available.
Vapour pressure :	Not available.
Relative density :	0.931 g/cm3 (@ 20°C).
Solubility in water :	Insoluble in water
Auto-ignition :	> 200 °C

9.2. Other information

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VOC: 870 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purpose

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

10.4. Conditions to avoid

Avoid overheating

10.5. Incompatible materials

Strong oxidising agent

10.6. Hazardous decomposition products

CO,CO2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation :	Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
Ingestion :	May cause gastrointestinal disturbances
Skin contact :	Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis Repeated exposure may cause skin dryness or cracking.
Eye contact :	May cause irritation.

Toxicological data :

Hazardous ingredient	CAS-nr.	method	
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	LD50 oral rat	>2000 mg/kg
		LC50 inhal.rat	>20000 mg/l
		LD50 derm.rabit	2000 mg/kg

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n-butyl acetate	123-86-4	LD50 oral rat	> 2000 mg/kg
		LC50 inhal.rat	> 20 mg/l
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	LD50 oral rat	> 2000 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	LC50 fish	6812 mg/l
		EC50 daphnia	23300 mg/l
n-butyl acetate	123-86-4	IC50 algae	647 mg/l
		LC50 fish	18 mg/l
		EC50 daphnia	44 mg/l
zinc oxide	1314-13-2	LC50 fish	1.1 mg/l
		EC50 daphnia	0.098 mg/l
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	IC50 algae	1 - 10 mg/l
		LC50 fish	10 - 100 mg/l
		EC50 daphnia	10 - 100 mg/l

12.2. Persistence and degradability

No experimental data available

12.3. Bioaccumulative potential

No experimental data available

12.4. Mobility in soil

Insoluble in water

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No experimental data available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product :	This material and its container must be disposed of in a safe way. Do not discharge into drains or the environment, dispose to an authorised waste collection point.
Contaminated packaging :	Disposal should be in accordance with local, state or national legislation

SECTION 14: Transport information

14.1. UN number

UN-number :	1950

14.2. UN proper shipping name

Proper shipping name:	AEROSOLS (Zinc)

14.3. Transport hazard class(es)

Class:	2.1
ADR/RID - Classification code:	5F

14.4. Packing group

Packing group:	Not applicable.

14.5. Environmental hazards

ADR/RID - Environmentally hazardous:	Yes
IMDG - Marine pollutant:	Marine pollutant
IATA/ICAO - Environmentally hazardous:	Yes

14.6. Special precautions for user

ADR/RID - Tunnelcode:	(D)
IMDG - Ems:	F-D, S-U
IATA/ICAO - PAX:	203
IATA/ICAO - CAO	203

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

The Safety Data Sheet is compiled according to the current European requirements.
Dir. 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.
EU-directive 99/45/EC
Regulation (EC) No 1272/2008
Regulation (EC) No 1907/2006 (REACH)

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

*Explanation risk-phrases:	R10: Flammable. R11: Highly flammable. R20: Harmful by inhalation. R22: Harmful if swallowed. R37: Irritating to respiratory system. R38: Irritating to skin. R41: Risk of serious damage to eyes. R65: Harmful: may cause lung damage if swallowed. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapours may cause drowsiness and dizziness. R20/21: Harmful by inhalation and in contact with skin. R23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R36/37/38: Irritating to eyes, respiratory system and skin. R37/38: Irritating to respiratory system and skin. R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
*Explanation hazard statements:	H225 : Highly flammable liquid and vapour. H226 : Flammable liquid and vapour. H280 : Contains gas under pressure; may explode if heated. H301 : Toxic if swallowed. H302 : Harmful if swallowed. H311 : Toxic in contact with skin. H312 : Harmful in contact with skin. H315 : Causes skin irritation. H318 : Causes serious eye damage. H319 : Causes serious eye irritation. H331 : Toxic if inhaled. H332 : Harmful if inhaled. H335 : May cause respiratory irritation. H336 : May cause drowsiness or dizziness. H370 : Causes damage to organs . H400 : Very toxic to aquatic life. H410 : Very toxic to aquatic life with long lasting effects.

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H411 : Toxic to aquatic life with long lasting effects.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties.

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