

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **CRC 2085 Zinc It Aerosol**
 Product Use: Spray on Zinc coating for metal surfaces
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Realcold Ltd
 Address: 9 Prescott Street
 Penrose, Auckland
 Telephone: 09 526 5700
 Fax Number: 09 526 5721
Emergency Telephone: 09 526 5700
0800 766 764 (National Poison Centre)

Manufacturer: CRC Industries New Zealand
 Address: 10 Highbrook Drive
 East Tamaki, Auckland, NZ

Date of SDS Preparation: 14 march 2017 Ver 2

Section 2. Hazards Identification

The manufacturer has stated that this substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

EPA Approval No: Aerosols (Flammable) – HSR002515

Pictograms



Flammable Toxic/Irritant Chronic Ecotoxic

Signal Word: DANGER

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
2.1.2A	H222	Extremely flammable aerosol.	Category 1
6.1D (inhalation)	H332	Harmful if inhaled.	Category 4
6.1E (oral)	H303	May be harmful if swallowed.	Category 5
6.3A	H315	Causes skin irritation.	Category 2
6.4A	H319	Causes serious eye irritation.	Category 2A
6.8B	H361	Suspected of damaging fertility or the unborn child	Category 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure	Category 2
9.1A	H410	Very toxic to aquatic life with long lasting effects.	Category 1
9.3C	H433	Harmful to terrestrial vertebrates.	

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P260	Do not breathe dust, vapours, or spray.
P264	Wash exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing and eye protection.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P331	Do NOT induce vomiting.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Zinc powder	20-40	7440-66-6
Toluene	5-20	108-88-3
Xylene	5-20	1330-20-7
Diocetyl terephthalate	< 1	6422-86-2
Additives	1-9	N/A
Propellant	10-30	68476-85-7

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. If skin irritation occurs: get medical advice/attention.
If Swallowed	Rinse mouth. Do NOT induce vomiting. Never give anything to the mouth of an unconscious person. Seek medical attention if you feel unwell.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult or if you feel unwell.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Aerosol
Hazards from combustion products	Spray/Vapours may form an explosive mixture in air which can be ignited by many sources such as pilot lights, open flames, electrical motors, switches and static electricity. This product has the potential to cause fire or to create an additional hazard during fire
Suitable Extinguishing media	Water fog, carbon dioxide or dry chemical.
Precautions for firefighters and special protective clothing	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
HAZCHEM CODE	2YE

Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel.

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Wear protective clothing, impervious gloves and safety glasses. Shut off all possible sources of ignition and increase ventilation.
- Remove leaking cylinders to a safe place if possible.
- Release pressure under safe, controlled conditions by opening the valve.
- DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve. Clear area of personnel and move upwind.

Section 7. Handling and Storage

Precautions for Handling:

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can
- Store in original containers in approved flammable liquid storage area.
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- No smoking, naked lights, heat or ignition sources.

Precautions for Storage:

- CARE: Packing of high density product in light weight metal or plastic packages may result in container collapse with product release
- Heavy gauge metal packages / Heavy gauge metal drums

- Check that containers are clearly labelled.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
zinc powder	Inhalable dust		10		
	Respirable dust		3		
Toluene		50	188		
Xylene		50	217		
dioctyl terephthalate	Inhalable dust		10		
	Respirable dust		3		
LPG		1000	1800		

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

The basic types of engineering controls are:

- Process controls which involve changing the way a job activity or process is done to reduce the risk.
- Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Personal Protection

Eyes	Wear goggles with side shields. Avoid wearing contact lenses.
Hands and Skin	PVC or rubber gloves, PVC boots and overalls should be worn when manufacturing or handling the concentrated product
Respiratory	A Type A (Organic Vapour) respirator should be used during any spraying operations.
General	At the end of the job, wash gloves and remove, then remove goggles and wash, then remove other protective clothing, finally remove respirator. If using a cartridge type respirator, cartridges should be removed and discarded. If the respirator is disposable, it should be discarded after use. If the respirator is reusable, it should be thoroughly cleaned as per the manufacturer's instruction. Clothing must be changed once contaminated. Protective clothing must be washed after each day's work. Contaminated clothing should not be washed with normal household laundry.

Section 9 Physical and Chemical Properties

Appearance	Grey Viscous liquid
Odour	Solvent
Odour Threshold	Not available
pH	Not applicable
Boiling Point	110°C
Melting Point	Not available
Freezing Point	Not available
Flash Point	-81°C (propellant)
Flammability	Highly flammable
Upper and Lower Exposure Limits	Not available
Vapour Pressure	Under pressure

Vapour Density	> 1
Relative Density	2.1
Solubilities	Immiscible in water
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Humid environments, extreme temperatures
Incompatible Materials	Oxidizing agents, strong acids or bases.
Hazardous Decomposition Products	Possible toxic fumes, reaction with acids creates flammable gas

Section 11 Toxicological Information

Acute Effects:

Swallowed	May be harmful if swallowed.
Dermal	Not applicable.
Inhalation	Harmful if inhaled.
Eye	Causes severe irritation to eyes.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Causes damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

HSNO Classes: 9.1A = Very toxic to aquatic life with long lasting effects.
9.3C = Harmful to terrestrial vertebrates.

Persistence and degradability	Toluene: Low persistence in water/soil (λ 28 days) Xylene: High persistence in water/soil (λ 360 days) Diocetyl terephthalate: Low persistence in water/soil
Bioaccumulation	Toluene: Low (BCF = 90) Xylene: Medium (BCF: 740) Diocetyl terephthalate: Low (LogKOW = 8.3918)
Mobility in Soil	No data available Toluene: Low (KOC = 268) Diocetyl terephthalate: Low (KOC = 162100)
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method: Dispose of empty canisters through appropriate waste disposal facility.

Precautions: Collect all spillage. Put in appropriate waste container for disposal. Ensure waste disposal is labelled "Hazardous Waste – Flammable, Ecotoxic"

Disposal methods to avoid: DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Do not dispose of material or empty canisters through household rubbish.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Road and Rail Transport

UN No: 1950
Class-primary 2.1
Packing Group Non allocated
Proper Shipping Name: AEROSOLS

Air Transport

UN No: 1950
Class-primary 2.1
Packing Group Non allocated
Proper Shipping Name: AEROSOLS

Marine Transport

UN No: 1950
Class-primary 2.1
Packing Group Non allocated
Proper Shipping Name: AEROSOLS
Marine pollutant: YES

Section 15 Regulatory Information

EPA Approval Code: Aerosols (Flammable) – HSR002515

HSNO Classification: 2.1.2A, 6.1D(inhalation), 6.1E(oral), 6.3A, 6.4A, 6.8B, 6.9B, 9.1A, 9.3C

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	3000L awc (or any if used in wide application or by contractor)
Location Certificate	3000L awc
Tracking Trigger Quantities	Not required by Group Standard
Signage Trigger Quantities	100L
Emergency Response Plan	100L
Secondary Containment	100L
Restriction of Use	None

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.

OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

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Please contact the New Zealand distributor, Realcold Ltd, if further information is required.

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