SAFETY DATA SHEET

1. IDENTIFICATION

1.1 Product identifier
Product Name: Zinc Spray

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses Zinc galvanizing spray

1.3 Supplier details
CRC Industries RSA (PTY) Ltd
Triton-Leo House, 15/16 Brons Crescent,
Gauteng Business Park, Clayville ext 20
Olifantsfontein, 1666

1.4 Emergency telephone number
+27 74 946 0893

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification
Physical hazards
Aerosol 1 - H220, H229
Health hazards
Serious eye damage / eye irritation (Category 2), H319
Specific target organ toxicity - single exposure (Category 3), Narcotic effects, H336
Environmental hazards
Hazardous to the aquatic environment, long-term aquatic hazard (Category 2), H411

2.2 Label elements
Hazard pictograms (GHS-ZA)

Signal word (GHS-ZA): Danger

Hazard statements (GHS-ZA):
H222 – Extremely flammable gas
H229 – Pressurized 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.

Precautionary statements (GHS-ZA):
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.
P202 – Do not handle until all safety precautions have been read and understood.
P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 – Avoid release to the environment.
P251 – Do not pierce or burn, even after use.
P410+P412 – Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P102 – Keep out of reach of children.

P101 – If medical advice is needed, have product container or label at hand.
P501 – Dispose of contents/container in accordance with local regulations.

2.3 Other Hazards
None identified

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Description: Liquid solvent, with hydrocarbon propellant.
Hazardous Components:

Chemical Name	CAS no	Approx %	Hazard Statements	Precautionary Statements
Zinc Galvanizing Spray	7440-66-6 / 78-93-3 / 64742-89-8 /	60 – 80	H319, H335, H336, H411	P102, P261, P280
Dimethyl Ether	115-10-6	20 – 40	H220, H280	P210, P377, P381, P410+P403

4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye contact: If liquid has entered the eyes, proceed as follows. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Skin contact: Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Inhalation: Keep affected person away from heat, sparks and flames. Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

4.2. Most important symptoms and effects, both acute and delayed
None identified

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

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

5.2. Special hazards arising from the substance or mixture

Specific hazards: Risk of explosion if heated. Containers can burst violently or explode when heated, due to excessive pressure build-up

5.3 Advice for firefighters

Protective actions while firefighting: Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
No additional information available

6.2. Environmental precautions
No additional information available

6.3. Methods and material for containment and cleaning up

For containment	Collect spillage.
Methods for cleaning up	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet..
Other information	Dispose of materials or solid residues at an authorized site.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions:	Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.
Storage class	Flammable compressed gas storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters
Zinc Galvanising Spray Long-term exposure limit (8-hour TWA): WEL 150 ppm 724 mg/m³ Short-term exposure limit (15-minute): WEL 200 ppm 966 mg/m³ WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin. Ingredient comments WEL = Workplace Exposure Limits BUTYL ACETATE -norm (CAS: 123-86-4) DNEL Workers - Inhalation; Short term systemic effects: 960 mg/m³ Workers - Inhalation; Short term local effects: 960 mg/m³ Workers - Inhalation; Long term systemic effects: 480 mg/m³ Workers - Inhalation; Long term local effects: 480 mg/m³ General population - Inhalation; Short term systemic effects: 859.7 mg/m³ General population - Inhalation; Short term local effects: 859.7 mg/m³ Workers - Inhalation; Long term systemic effects: 102.34 mg/m³ General population - Inhalation; Long term local effects: 102.34 mg/m³ PNEC - Fresh water; 0.18 mg/l - Marine water; 0.18 mg/l - Intermittent release; 0.36 mg/l - STP; 35.6 mg/l - Sediment (Freshwater); 0.981 mg/kg - Sediment (Marinewater); 0.0981 mg/l - Soil; 0.0903 mg/kg

8.2. Exposure controls:
Protective equipment

Engineering controls:	Provide adequate general and local exhaust ventilation
Eye/face protection:	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Rubber (natural, latex).
Other protection:	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact
Hygiene measures:	Use engineering controls to reduce air contamination to permissible exposure level. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke
Respiratory protection:	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Silver liquid
Colour	: Silver liquid
Odour	: Organic solvent
Odour threshold	: No data available
pH	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Pressurized container: May burst if heated.
Oxidizing properties	: No data available
Explosive limits	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available
Neurotoxicity	: No data available

9.2. Other information

10. STABILITY AND REACTIVITY

10.1. Reactivity — Stable at normal ambient temperatures and when used as recommended.
10.2. Chemical stability — Avoid the following conditions: Heat, sparks, flames.
10.3. Possibility of hazardous reactions: Does not decompose when used and stored as recommended.
10.4. Conditions to avoid: — Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.
10.5. Incompatible materials: — Keep away from oxidising materials, heat and flames.
10.6 Hazardous decomposition products: Does not decompose when used and stored as recommended.
10.7 Thermal decomposition: No data available

11. TOXOCOLOGICAL INFORMATION:

11.1. Information on toxicological effects

General information - Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.
Inhalation Harmful by inhalation. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.
Skin contact -Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.
Eye contact- Irritating to eyes. Vapour or spray in the eyes may cause irritation and smarting. Repeated exposure may cause chronic eye irritation
Acute and chronic health hazards -Arrhythmia (deviation from normal heart beat). Irritating to eyes. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Route of entry
Inhalation Target organs Central nervous system Respiratory system, lungs
Medical symptoms Arrhythmia (deviation from normal heart beat).
Narcotic effect. Vapours may cause drowsiness and dizziness. Irritation of eyes.

12. ECOLOGICAL INFORMATION:

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Endocrine disrupting properties

12.7 Other adverse effects

No data available

13. DISPOSAL CONSIDERATION

13.1. Waste treatment methods

Disposal methods: Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Offer surplus and non-recyclable solutions to a licensed disposal company. Disposed of contaminated packaging as unused product.

14. TRANSPORT INFORMATION

In accordance with SANS / IMDG / IATA

14.1. UN number

UN-No.(SANS) : 1950
UN-No. (IMDG) : 1950
UN-No. (IATA) : 1950

14.2. Proper Shipping Name

Proper Shipping Name (SANS) : AEROSOLS
Proper Shipping Name (IMDG) : AEROSOLS
Proper Shipping Name (IATA) : Aerosols, flammable

14.3. Transport hazard class(es)

SANS

Transport hazard class(es) (SANS) : 2.1
Danger labels (SANS) : 2.1

IMDG

Transport hazard class(es) (IMDG) : 2.1
Danger labels (IMDG) : 2.1

IATA

Transport hazard class(es) (IATA) : 2.1
Danger labels (IATA) : 2.1

14.4. Packing group

Packing group (SANS) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

EmS: F-D, S-U

ADR trans[ort category: 2
Tunnel restriction code: (D)

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

15. REGULATORY INFORMATION

15.1. Safety, health, and environmental national regulations specific for the product
Regulatory reference :SANS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.

16. OTHER INFORMATION

Precautionary Note: All information supplied is based on current information available. Data is to the best of our knowledge correct – we cannot be held responsible in the event of misuse or abuse of this material as conditions of use are beyond our control.

TECHNICAL DATA SHEET

ZINC SPRAY

1. DESCRIPTION:
A clear colourless liquid.

2. APPLICATION:
Zinc galvanizing spray

3. BENEFITS / USEFULL CHARACTERISTICS
Corrosion prevention. Galvanise touch up. Durable resin coating. Long term protection.

4. DIRECTIONS FOR USE
Shake well before use. Shake until the agitator ball moves freely in the can. Apply to a clean, dry surface. Apply a thin even film. Best results are obtained with 2 lighter rather than 1 heavy coat. Additional coats can be applied after 15 – 20 minutes. Do not use on energized equipment. Do not use on sensitive electronic equipment. Clean the aerosol valve by turning the can upside down and spraying until only propellant escapes.

5. WARNINGS
Extremely flammable aerosol. Pressurised container: May burst if heated. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects. Keep out of reach of children. 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. Do not breathe mist / vapours / spray. Use only outdoors or in a well-ventilated area. Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F. Dispose of contents / container to an authorised waste collection point.

6. PROPERTIES

Appearance:	Silver liquid.
Odour:	Characteristic.
Flammability:	Extremely Flammable
UN Code:	1950
Chemical Composition:	Zinc Galvanizing spray Dimethyl Ether
Pack size	400ml Aerosol
Units per Case	12