



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Bright Zinc-It® Instant Cold Galvanize(aerosol)

Product Number (s): 18414

Product Use: Primer coating

Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

www.crcindustries.com

1-215-674-4300(General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

www.crc-canada.ca

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

www.crc-mexico.com

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

DANGER: Extremely Flammable. Harmful or Fatal if Swallowed. Vapor Harmful. Eye and Skin Irritant. Contents Under Pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Appearance & Odor: Aluminum liquid, aromatic odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: Eye irritant. May cause irritation.

SKIN: Skin irritant. May cause irritation. Frequent exposure to solvents may cause defatting dermatitis.

INHALATION: Inhalation of solvents may cause irritation, dizziness, and nausea. Propellant is a simple asphyxiant.

INGESTION: May cause headache, nausea, vomiting and weakness.

CHRONIC EFFECTS: Defatting dermatitis to skin.

TARGET ORGANS: Unknown

Medical Conditions Aggravated by Exposure: Unknown

See Section 11 for toxicology and carcinogenicity information on product ingredients.

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Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Acetone	67-64-1	10 - 30
Toluene	108-88-3	7 - 13
Xylene	1330-20-7	1 - 5
Ethylbenzene	100-41-4	0.5 – 1.5
Zinc elemental	7440-66-6	7 - 13
Methyl ethyl ketone	78-93-3	10 - 30
Mineral spirits	64742-47-8	1 – 5
Aluminum	7429-90-5	1 - 5
Diacetone alcohol	123-42-2	1 - 5
Isobutane	75-28-5	10 - 30
Propane	74-98-6	7 - 13

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do not induce vomiting. Get medical attention.

Note to Physicians: Aspiration hazard. Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability definitions. (See 16 CFR 1500.3(c)(6)). The flame extension is greater than 15 cm but less than 100 cm.
Flash Point: 0°F (TCC) Upper Explosive Limit: 12.8
Autoignition Temperature: > 850°F Lower Explosive Limit: 1.0

Fire and Explosion Data:

Suitable Extinguishing Media: Water, carbon dioxide, dry chemical, foam

Products of Combustion: Hydrocarbon fumes and smoke; carbon monoxide where combustion is incomplete

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors may accumulate in a confined space and create a flammable atmosphere.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

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Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Remove all sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Keep away from heat, sparks and open flames. Do not inhale vapors. Use good local ventilation. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing.

Aerosol Storage Level: II

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Acetone	1000	NE	500	750	NE		ppm
Toluene	200	300 (c)	20	NE	NE		ppm
Xylene	100	150 (v)	100	150	NE		ppm
Ethylbenzene	100	125 (v)	100	125	NE		ppm
Zinc elemental	NE	NE	NE	NE	NE		
Methyl ethyl ketone	200	300(v)	200	300	NE		ppm
Mineral spirits	500	NE	100	NE	NE		ppm
Aluminum	15	NE	10	NE	NE		mg/m ³
Diacetone alcohol	50	NE	50	NE	NE		ppm
Isobutane	1000	NE	1000	NE	NE		ppm
Propane	1000	NE	1000	NE	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor

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levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor / paint cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as neoprene or nitrile. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid

Color: aluminum

Odor: aromatic

Odor Threshold: ND

Specific Gravity: 0.95 – 0.99

Initial Boiling Point: 135°F

Freezing Point: NE

Vapor Pressure: 40 – 50 psig @ 68°F

Vapor Density: > 1 (air = 1)

Evaporation Rate: fast

Solubility: NE

Coefficient of water/oil distribution: ND

pH: NA

Volatile Organic Compounds: wt %: 65 g/L: ~530 lbs./gal: ~4.4

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Sources of ignition, temperature extremes

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Hydrocarbon fumes and smoke, carbon monoxide

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

<u>Component</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
Acetone	5800 mg/kg	No data	50,100 mg/m ³ /8H
Toluene	636 mg/kg	14,100 µL/kg	49 g/m ³ /4H
Xylene	4300 mg/kg	> 1700 mg/kg	5000 ppm/4H

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Ethylbenzene	3500 mg/kg	> 5000 mg/kg	55,000 mg/m ³ /2H
Zinc elemental	No data	No data	No data
Methyl ethyl ketone	2737 mg/kg	6480 mg/kg	23,500 mg/m ³ /8H
Mineral spirits	> 5 g/kg	> 2 g/kg	> 5 mg/L/4H
<u>Component</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
Aluminum	No data	No data	No data
Diacetone alcohol	2520 mg/kg	13,500 mg/kg	No data
Isobutane	No data	No data	658 g/m ³ /4H
Propane	No data	No data	No data

Chronic Toxicity:

<u>Component</u>	<u>OSHA Carcinogen</u>	<u>IARC Carcinogen</u>	<u>NTP Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
Acetone	No	No	No	E (moderate) / S (moderate)	Yes
Toluene	No	No	No	E (mild) / S (mild) / R (mild)	Unknown
Xylene	No	No	No	E (mild) / S (moderate)	Unknown
Ethylbenzene	No	Group 2B	No	E (moderate) / S (mild)	Unknown
Zinc elemental	No	No	No	Unknown	Unknown
Methyl ethyl ketone	No	No	No	E (moderate) / S (mild) / R (mild)	Unknown
Mineral spirits	No	No	No	E (mild) / S (moderate)	Unknown
Aluminum	No	No	No	No	Unknown
Diacetone alcohol	No	No	No	E (moderate) / R (mild)	Unknown
Isobutane	No	No	No	No	No
Propane	No	No	No	No	No

E – Eye S – Skin R - Respiratory

Reproductive Toxicity: Exposure of pregnant animals to toluene at levels greater than 1500 ppm has been reported to cause adverse fetal developmental effects.

Teratogenicity: No information available

Mutagenicity: No information available

Synergistic Effects: No information available

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: No information available

Persistence / Degradability: No information available

Bioaccumulation / Accumulation: No information available

Mobility in Environment: No information available

Section 13: Disposal Considerations

Waste Classification: The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability with a waste code of D001. Pressurized containers are a D003 reactive waste. (See 40 CFR Part

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Part 261.20 – 261.33)

Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground): Consumer Commodity, ORM-D

ICAO/IATA (air): Consumer Commodity, ID8000, 9

IMO/IMDG (water): Aerosols, UN1950, 2.1, Limited Quantity

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: Acetone (5000 lbs), Xylene (100 lbs), Ethylbenzene (1000 lbs), Toluene (1000 lbs), Methyl ethyl ketone (5000 lbs), Zinc (1000 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard	Yes
	Reactive Hazard	No
	Release of Pressure	Yes
	Acute Health Hazard	Yes
	Chronic Health Hazard	Yes

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
Xylene (<10%), Ethylbenzene (<5%), Toluene (<10%), Zinc compounds (<13%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): Xylene, Ethylbenzene, Toluene

U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: Ethylbenzene, Toluene

Consumer Products VOC Regulations: This product complies with Aerosol Coating VOC regulations for primers. (MIR = 1.2)

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State Right to Know:

New Jersey: 67-64-1, 1330-20-7, 100-41-4, 78-93-3, 108-88-3, 7429-90-5, 123-42-2

Pennsylvania: 67-64-1, 1330-20-7, 100-41-4, 78-93-3, 108-88-3, 7429-90-5, 123-42-2

Massachusetts: 67-64-1, 1330-20-7, 100-41-4, 78-93-3, 108-88-3, 7429-90-5, 123-42-2

Rhode Island : 67-64-1, 1330-20-7, 100-41-4, 78-93-3, 108-88-3, 7429-90-5, 123-42-2

Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: A, B5, D2A, D2B

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

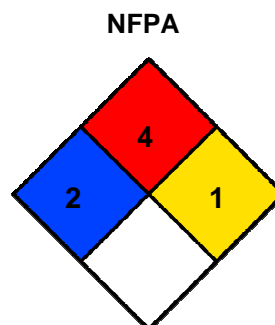
European Union Regulations:

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

Section 16: Other Information

HMIS® (II)	
Health:	2
Flammability:	4
Reactivity:	1
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick

CRC #: 03392-18414

Revision Date: 07/07/2009

Changes since last revision: MSDS reformatted to meet requirements of the Canadian Controlled Products Regulations.

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service

CFR: Code of Federal Regulations

DOT: Department of Transportation

DSL: Domestic Substance List

g/L: grams per Liter

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization

lbs./gal: pounds per gallon

LC: Lethal Concentration

LD: Lethal Dose

NA: Not Applicable

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ND: Not Determined

NIOSH: National Institute of Occupational Safety & Health

NFPA: National Fire Protection Association

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PMCC: Pensky-Martens Closed Cup

PPE: Personal Protection Equipment

ppm: Parts per Million

RoHS: Restriction of Hazardous Substances

STEL: Short Term Exposure Limit

TCC: Tag Closed Cup

TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Information System