



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Rust Converter (aerosol)
Product Number (s): 14610, 74610
Product Use: neutralize rust and convert it to a black primer

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

WARNING: May cause burns to eyes or skin. Harmful if swallowed. Contents under pressure.
Appearance & Odor: creamy white liquid, bland odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause irritation, tearing, redness, and possibly chemical burns to eyes depending on quantity and duration of exposure.

SKIN: May cause irritation and redness. Extensive contact may cause burns to skin.

INHALATION: May cause irritation and burning to nose and throat.

INGESTION: May cause chemical burns to the mouth and esophagus. May cause gastrointestinal irritation, burning and nausea.

CHRONIC EFFECTS: Unknown

TARGET ORGANS: Unknown

Medical Conditions Aggravated by Exposure: may aggravate existing respiratory conditions

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

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Water	7732-18-5	45 – 55
Vinylidene dichloride acrylic copolymer latex	proprietary	25 – 35
Hydrocarbon propellant	68476-86-8	10 - 20
Tannic acid	1401-55-4	2 – 5
2-Butoxyethanol	111-76-2	< 1

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. Immediately give milk, antacid, gelatin, or, if none of these are available, give water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Note to Physicians: None

Section 5: Fire-Fighting Measures

Flammable Properties: This product is nonflammable in accordance with aerosol flammability definitions. (See 16 CFR 1500.3(c)(6)).

Flash Point:	none	Upper Explosive Limit:	none
Autoignition Temperature:	ND	Lower Explosive Limit:	none

Fire and Explosion Data:

Suitable Extinguishing Media: This material will not burn. Use water, CO2 or dry chemical as appropriate for surrounding fire.

Products of Combustion: Heated material may produce corrosive and irritating fumes, including HCl.

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode.

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.

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: 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. Neutralize spilled material with sodium bicarbonate (baking soda) or sodium carbonate (baking powder, soda ash). 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: Do not mix with other chemical products. Use appropriate personal protective equipment (see section 8) to prevent skin and eye contact. Avoid breathing vapors. 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 / 49°C to prevent cans from rupturing. Do not store near alkaline materials. Keep out of reach of children.

Aerosol Storage Level: I

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Water	NE	NE	NE	NE	NE		
Vinylidene dichloride acrylic copolymer latex	NE	NE	NE	NE	NE		
Hydrocarbon propellant	1000	NE	1000	NE	NE		ppm
Tannic acid	NE	NE	NE	NE	NE		
2-Butoxyethanol	50 (s)	NE	20	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 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 acid gas 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 latex or rubber. 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: creamy white
 Odor: bland
 Odor Threshold: ND
 Specific Gravity: 1.12
 Initial Boiling Point: > 200°F / > 93°C
 Freezing Point: ND
 Vapor Pressure: ND
 Vapor Density: < 1 (air = 1)
 Evaporation Rate: slow
 Solubility: miscible in water
 Coefficient of water/oil distribution: ND
 pH: 2.5 – 3.5
 Volatile Organic Compounds: wt %: 12.9 g/L: 144.5 lbs./gal: 1.2

Section 10: Stability and Reactivity

Stability: Stable
 Conditions to Avoid: None
 Incompatible Materials: Oxidizers. Will react with some alkalis and organics. Will react with rust to form iron tannate.
 Hazardous Decomposition Products: Oxides of carbon, acid vapors, hydrogen chloride
 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>
Water	> 90 mL/kg	No data	No data
Vinylidene dichloride acrylic copolymer latex	No data	No data	No data
Tannic acid	2260 mg/kg	No data	No data
2-Butoxyethanol	530 mg/kg	220 mg/kg	450 ppm/4H
Hydrocarbon propellant	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>
Water	No	No	No	No	No
Vinylidene dichloride acrylic copolymer latex	No	No	No	Eye	No
Tannic acid	No	No	No	Unknown	Unknown
2-Butoxyethanol	No	No	No	Eye, skin	No
Hydrocarbon propellant	No	No	No	No	No

<u>Reproductive Toxicity:</u>	No information available
<u>Teratogenicity:</u>	No information available
<u>Mutagenicity:</u>	No information available
<u>Synergistic Effects:</u>	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:	<u>tannic acid</u> – 96 Hr LC50 Gambusia affinis: 37 mg/L
	<u>2-Butoxyethanol</u> 96 Hr LC50, Bluegill sunfish: 1490 mg/L
	24 Hr LC50, daphnia: 1720 mg/L
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 not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33) Aerosol containers should be fully emptied and depressurized before disposal. Empty 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):	UN1950, Aerosols, nonflammable, 2.2, Limited Quantity**
ICAO/IATA (air):	UN1950, Aerosols, nonflammable, 2.2, Limited Quantity
IMO/IMDG (water):	UN1950, Aerosols, 2.2, Limited Quantity
Special Provisions:	**This product can be classified and labeled as 'Consumer Commodity, ORM-D' for domestic ground shipping until January 1, 2014. If shipping as limited quantity by ground, note that shipping papers are not required.

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: none

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	No
	Reactive Hazard	No
	Release of Pressure	Yes
	Acute Health Hazard	Yes
	Chronic Health Hazard	No

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:
2-Butoxyethanol (glycol ethers): 0.9%

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): none

Occupational Safety and Health Administration:

This product is regulated by the Hazard Communications Standard.

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: NONE

Consumer Products VOC Regulations: Not regulated

State Right to Know:

New Jersey: 111-76-2, NJTSRN-3765P (proprietary polymer), 68476-86-8
Pennsylvania: 111-76-2, 68476-86-8
Massachusetts: 111-76-2, 68476-86-8
Rhode Island : 111-76-2, 68476-86-8

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, D2B

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

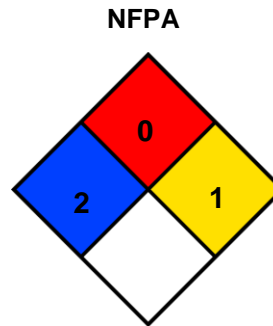
European Union Regulations:

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:	0
Reactivity:	1
PPE:	B



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

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 CRC #: 691B
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Changes since last revision: part # added
 Section 14: Transport information

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
 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