



# Material Safety Data Sheet

## Section 1: Product & Company Identification

Product Name: Rust Converter

Product Number (s): 18418, 18419

**Manufactured By:**

CRC Industries, Inc.  
885 Louis Drive  
Warminster, PA 18974  
[www.crcindustries.com](http://www.crcindustries.com)

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-4620
24-Hr Emergency (CHEMTREC)	(800) 424-9300

## Section 2: Hazards Identification

### Emergency Overview

Appearance & Odor: Creamy white liquid, glue-like odor

**DANGER:**

Corrosive to skin & eyes. Harmful if swallowed.

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

### Potential Health Effects:

EYE: May cause chemical burns to eyes.

SKIN: May cause chemical burns to skin.

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

INGESTION: May cause severe 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	65 - 75
Vinyl acrylic polymer mixture	proprietary	10 - 15
Tannic acid	1401-55-4	2 – 6
2-Butoxyethanol	111-76-2	2.2
Barium sulfate	7727-43-7	1 – 2
Oxalic acid	144-62-7	< 1

**Section 4: First Aid Measures**

- Eye Contact:** Immediately flush with plenty of water for 15 minutes. Get medical attention. Prompt action may save sight.
- Skin Contact:** Remove contaminated clothing and wash affected area with copious amounts of 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 and call a physician.
- Ingestion:** Do not induce vomiting. Immediately give milk, egg white, antacid, gelatin, or, if none of these are available, give water. Get immediate medical attention.
- Note to Physicians:** None

**Section 5: Fire-Fighting Measures**

**Flammable Properties:** As defined by OSHA, this product is nonflammable.

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

**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.

**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 undiluted product 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: Keep containers closed when not in use. Do not mix with other chemical products. Use appropriate personal protective equipment (see section 8) to prevent skin and eye contact. Avoid breathing vapors.

Storage Procedures: Store in a cool dry area out of direct sunlight. Do not store near alkaline materials. Keep out of reach of children.

Aerosol Storage Level: NA

**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		
Vinyl acrylic polymer mixture	NE	NE	NE	NE	NE		
Tannic acid	NE	NE	NE	NE	NE		
2-Butoxyethanol	50 (s)	NE	20	NE	NE		ppm
Barium sulfate	15	NE	10	NE	NE		mg/m <sup>3</sup>
Oxalic acid	1	2 (v)	1	2	NE		mg/m <sup>3</sup>
N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. 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. Use a NIOSH-approved cartridge respirator with acid gas cartridge if vapors exceed exposure limits. 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.

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**Section 9: Physical and Chemical Properties**

Physical State: Liquid  
Color: Creamy white  
Odor: glue-like odor  
Specific Gravity: 1.056  
Initial Boiling Point: > 200 F  
Freezing Point: ND  
Vapor Pressure: ND  
Vapor Density: ND (air = 1)  
Evaporation Rate: < 1 (ether = 1)  
Solubility: completely soluble in water  
pH: 1.5  
Volatile Organic Compounds: wt %: 3.3 g/L: 34.85 lbs./gal: 0.27

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**Section 10: Stability and Reactivity**

Stability: Stable  
Conditions to Avoid: None  
Incompatible Materials: Will react with some alkalines and organics. Will react with rust to form iron tannate.  
Hazardous Decomposition Products: Oxides of carbon, acid vapors, oxides of sulfur, hydrogen chloride, chlorine  
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

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**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 EFFECTS**

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Oxalic acid	LD50	7500 mg/kg	Oral	Rat
Tannic acid	LD50	2260 mg/kg	Oral	Rat
2-Butoxyethanol	LC50	450 ppm/4H	Inhalation	Rat
2-Butoxyethanol	LD50	470 mg/kg	Oral	Rat
2-Butoxyethanol	LD50	220 mg/kg	Dermal	Rabbit

**CHRONIC EFFECTS**

**Carcinogenicity:**

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

**Mutagenicity:** 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: tannic acid – 96 Hr LC50 *Gambusia affinis*: 37 mg/L  
oxalic acid – 48 Hr EC50 *Daphnia magna*: 136.9 mg/L  
2-Butoxyethanol 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**

Disposal: This product, as packaged, is a corrosive hazardous waste with a waste code of D002. Dilutions or mixtures of this product should be tested to determine waste classification. (See 40 CFR Part 261.20 – 261.33)

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

**Section 14: Transport Information**

Proper shipping description:

US DOT (ground): **18418:** Consumer Commodity, ORM-D  
**18419:** Corrosive liquid, N.O.S. (contains tannic & oxalic acids), 8, UN1760, PG II

Special Provisions: None

**Section 15: Regulatory Information**

**U.S. Federal**

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 No  
 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): 2.2%

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs):    none

**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:    chloroethylene (< 0.0001%)

State Right to Know:

New Jersey:            111-76-2, 144-62-7, 43574982-8387P  
Pennsylvania:        111-76-2, 7727-43-7, 144-62-7  
Massachusetts:      111-76-2, 7727-43-7, 144-62-7  
Rhode Island :        111-76-2, 144-62-7

**Additional Regulatory Information:**    This product complies with VOC limits established by state and federal Architectural Coatings Regulations.

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**Section 16: Other Information**

NFPA:    Health: 3            Flammability: 0            Reactivity: 2  
HMIS:    Health: 3            Flammability: 0            Reactivity: 2            PPE: B

Prepared By:    Michelle Rudnick  
CRC #:            691  
Revision Date:    05/02/2007

Changes since last revision:    New product

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.

CAS:            Chemical Abstract Service            NA:            Not Applicable  
ppm:            Parts per Million            ND:            Not Determined  
TCC:            Tag Closed Cup            NE:            Not Established  
PMCC:          Pensky-Martens Closed Cup            g/L:            grams per Liter  
PPE:            Personal Protection Equipment            lbs./gal:        pounds per gallon  
TWA:            Time Weighted Average            STEL:            Short Term Exposure Limit  
OSHA:          Occupational Safety and Health Administration  
ACGIH          American Conference of Governmental Industrial Hygienists  
NIOSH          National Institute of Occupational Safety & Health