



# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Rust Converter</b>
<b>Other means of identification</b>	
<b>Product Code</b>	No. 18418 (Item# 1005246)
<b>Recommended use</b>	Neutralize rust and convert it to a black primer
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufactured or sold by:</b>	
<b>Company name</b>	CRC Industries, Inc.
<b>Address</b>	885 Louis Dr. Warminster, PA 18974 US
<b>Telephone</b>	
<b>General Information</b>	215-674-4300
<b>Technical Assistance</b>	800-521-3168
<b>Customer Service</b>	800-272-4620
<b>24-Hour Emergency</b>	800-424-9300 (US)
<b>(CHEMTREC)</b>	703-527-3887 (International)
<b>Website</b>	www.crcindustries.com

## 2. Hazard(s) identification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Specific target organ toxicity, single exposure Category 2 (kidney, liver, reproductive system)
<b>Environmental hazards</b>	Not classified.
<b>OSHA defined hazards</b>	Not classified.
<b>Label elements</b>	



<b>Signal word</b>	Warning
<b>Hazard statement</b>	May cause damage to organs (kidney, liver, reproductive system).
<b>Precautionary statement</b>	
<b>Prevention</b>	Do not breathe mist or vapor. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
<b>Response</b>	If exposed or concerned: Call a poison center/doctor.
<b>Storage</b>	Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
water		7732-18-5	70 - 80
vinylidene dichloride acrylic copolymer latex		Proprietary	20 - 30
tannins		1401-55-4	3 - 5
2-butoxyethanol		111-76-2	1 - 3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
<b>Most important symptoms/effects, acute and delayed</b>	Edema. Jaundice.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	This product is miscible in water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. For product usage instructions, see the product label.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
2-butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3 50 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
2-butoxyethanol (CAS 111-76-2)	TWA	20 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3 5 ppm

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

\* - For sampling details, please see the source document.

### Exposure guidelines

#### US - California OELs: Skin designation

2-butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

#### US - Minnesota Haz Subs: Skin designation applies

2-butoxyethanol (CAS 111-76-2) Skin designation applies.

#### US - Tennessee OELs: Skin designation

2-butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

#### US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

#### Skin protection

**Hand protection** Wear protective gloves such as: Latex. Rubber gloves.

**Other** Wear suitable protective clothing.

#### Respiratory protection

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Creamy white.
<b>Odor</b>	Glue-like.
<b>Odor threshold</b>	Not available.
<b>pH</b>	2.5 - 3.5
<b>Melting point/freezing point</b>	-103 °F (-75 °C) estimated
<b>Initial boiling point and boiling range</b>	122 °F (50 °C) estimated
<b>Flash point</b>	None (Tag Closed Cup)
<b>Evaporation rate</b>	Slow.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	1.3 % estimated
<b>Flammability limit - upper (%)</b>	10.6 % estimated
<b>Vapor pressure</b>	21.1 hPa estimated
<b>Vapor density</b>	< 1 (air = 1)
<b>Relative density</b>	1.11
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Miscible.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	446 °F (230 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Percent volatile</b>	71.8 % estimated

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## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials. Heat, flames and sparks. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon oxides. Aldehydes. Ketones. Organic acids. Hydrogen chloride. Phosgene.

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## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause damage to organs by inhalation. Prolonged inhalation may be harmful.
<b>Skin contact</b>	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Edema. Jaundice.

### Information on toxicological effects

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Material name: Rust Converter

No. 18418 (Item# 1005246) Version #: 02 Revision date: 11-15-2017 Issue date: 04-14-2015

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<b>Acute toxicity</b>	Not known.		
<b>Components</b>	<b>Species</b>	<b>Test Results</b>	
2-butoxyethanol (CAS 111-76-2)			
<b>Acute</b>			
<b>Oral</b>			
LD50	Rat	1300 mg/kg	
tannins (CAS 1401-55-4)			
<b>Acute</b>			
<b>Dermal</b>			
LD50	Rabbit	1100 mg/kg	
<b>Inhalation</b>			
LC50	Rat	4500 mg/l	
<b>Oral</b>			
LD50	Rat	2260 mg/kg	
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.		
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.		
<b>Respiratory or skin sensitization</b>			
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.		
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans.		
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>			
2-butoxyethanol (CAS 111-76-2)	3 Not classifiable as to carcinogenicity to humans.		
tannins (CAS 1401-55-4)	3 Not classifiable as to carcinogenicity to humans.		
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)</b>			
Not regulated.			
<b>US. National Toxicology Program (NTP) Report on Carcinogens</b>			
Not listed.			
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.		
<b>Specific target organ toxicity - single exposure</b>	May cause damage to organs (kidney, liver, reproductive system).		
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.		
<b>Aspiration hazard</b>	Not an aspiration hazard.		
<b>Chronic effects</b>	May be harmful if absorbed through skin. Prolonged inhalation may be harmful.		
	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.		

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
2-butoxyethanol (CAS 111-76-2)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) 1550 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss) >= 1000 mg/l, 96 hours

Components	Species	Test Results
tannins (CAS 1401-55-4)		
<b>Aquatic</b>		
Fish	LC50	Western mosquitofish ( <i>Gambusia affinis</i> ) 37 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of any ingredients in the mixture.	
<b>Bioaccumulative potential</b>		
<b>Partition coefficient n-octanol / water (log Kow)</b>		
2-butoxyethanol		0.81, log Pow
<b>Mobility in soil</b>	No data available.	
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

### 13. Disposal considerations

<b>Disposal instructions</b>	This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	Not regulated.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.

### 15. Regulatory information

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Not regulated.	
<b>SARA 304 Emergency release notification</b>	Not regulated.	
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)</b>	Not regulated.	
<b>US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance</b>	2-butoxyethanol (CAS 111-76-2)	
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	2-butoxyethanol (CAS 111-76-2)	Listed.
<b>CERCLA Hazardous Substances: Reportable quantity</b>	Not listed.	
	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.	
<b>Other federal regulations</b>		
<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>	Not regulated.	
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	Not regulated.	
<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.	
<b>Food and Drug Administration (FDA)</b>	Not regulated.	

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Classified hazard categories** Acute toxicity (any route of exposure)  
Specific target organ toxicity (single or repeated exposure)

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
2-butoxyethanol	111-76-2	1 - 3

**US state regulations****US - New Jersey Community RTK (EHS Survey): Listed substance**

2-butoxyethanol (CAS 111-76-2)

**US. New Jersey Worker and Community Right-to-Know Act**

2-butoxyethanol (CAS 111-76-2)

**US. Massachusetts RTK - Substance List**

2-butoxyethanol (CAS 111-76-2)

**US. Pennsylvania Worker and Community Right-to-Know Law**

2-butoxyethanol (CAS 111-76-2)

**US. Rhode Island RTK**

2-butoxyethanol (CAS 111-76-2)

**California Proposition 65**

**WARNING:** This product can expose you to chemicals including ethylene oxide: lead: cadmium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

1,4-dioxane (CAS 123-91-1)	Listed: January 1, 1988
acetaldehyde (CAS 75-07-0)	Listed: April 1, 1988
arsenic (CAS 7440-38-2)	Listed: February 27, 1987
beryllium (CAS 7440-41-7)	Listed: October 1, 1987
cadmium (CAS 7440-43-9)	Listed: October 1, 1987
cobalt (CAS 7440-48-4)	Listed: July 1, 1992
ethylene oxide (CAS 75-21-8)	Listed: July 1, 1987
lead (CAS 7439-92-1)	Listed: October 1, 1992
nickel (CAS 7440-02-0)	Listed: October 1, 1989

**California Proposition 65 - CRT: Listed date/Developmental toxin**

cadmium (CAS 7440-43-9)	Listed: May 1, 1997
ethylene oxide (CAS 75-21-8)	Listed: August 7, 2009
lead (CAS 7439-92-1)	Listed: February 27, 1987
lithium carbonate (CAS 554-13-2)	Listed: January 1, 1991
mercury (CAS 7439-97-6)	Listed: July 1, 1990

**California Proposition 65 - CRT: Listed date/Female reproductive toxin**

ethylene oxide (CAS 75-21-8)	Listed: February 27, 1987
lead (CAS 7439-92-1)	Listed: February 27, 1987

**California Proposition 65 - CRT: Listed date/Male reproductive toxin**

cadmium (CAS 7440-43-9)	Listed: May 1, 1997
ethylene oxide (CAS 75-21-8)	Listed: August 7, 2009
lead (CAS 7439-92-1)	Listed: February 27, 1987

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

2-butoxyethanol (CAS 111-76-2)

**Volatile organic compounds (VOC) regulations****EPA**

**VOC content (40 CFR 51.100(s))** 53.8 g/l

**Architectural coatings (40 CFR 59, Subpt. D)** Compliant

**State**

**Architectural coatings** This product is regulated as an Architectural Coating for Flat Coatings (interior or exterior). This product is compliant for use in all 50 states.

**VOC content** 53.8 g/l

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Toxic Chemical Substances (TCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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**16. Other information, including date of preparation or last revision**

<b>Issue date</b>	04-14-2015
<b>Revision date</b>	11-15-2017
<b>Prepared by</b>	Allison Yoon
<b>Version #</b>	02
<b>Further information</b>	CRC # 691B/1002735
<b>HMIS® ratings</b>	Health: 2 Flammability: 0 Physical hazard: 1 Personal protection: B
<b>NFPA ratings</b>	Health: 2 Flammability: 0 Instability: 1

**NFPA ratings****Disclaimer**

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's 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 (M)SDS consult your supervisor, a health & safety professional, or CRC Industries, Inc..

**Revision information**

This document has undergone significant changes and should be reviewed in its entirety.