# SAFETY DATA SHEET

## 1. Identification

**Product identifier Rust Converter** 

Other means of identification

Product code 18418, 18419

Recommended use Neutralize rust and convert it to a black primer

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries, Inc. Company name

885 Louis Dr. **Address** 

Warminster, PA 18974 US

Telephone

**General Information** 215-674-4300 **Technical** 800-521-3168

**Assistance** 

800-272-4620 **Customer Service** 24-Hour Emergency 800-424-9300 (US)

703-527-3887 (International) (CHEMTREC) Website www.crcindustries.com

# 2. Hazard(s) identification

Physical hazards Not classified.

**Health hazards** Sensitization, skin Category 1

Specific target organ toxicity, single exposure Category 2

**Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word

**Hazard statement** May cause an allergic skin reaction. May cause damage to organs (Mouth, Esophagus) by

ingestion.

**Precautionary statement** 

Prevention Do not breathe mist or vapor. Do not eat, drink or smoke when using this product. Contaminated

work clothing must not be allowed out of the workplace. Wear protective gloves. Wash hands

thoroughly after handling

Response If on skin: Wash with plenty of water/soap. If skin irritation or rash occurs: Get medical attention.

Wash contaminated clothing before reuse. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately give milk, antacid, gelatin, or, if none of these are available, give water. Get

immediate medical attention. If exposed or concerned: Call a poison center/doctor.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.

Material name: Rust Converter SDS US 1/8

# 3. Composition/information on ingredients

	Iros

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

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if symptoms develop
	or persist.

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders. Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if Eye contact

May cause an allergic skin reaction. Dermatitis. Rash.

irritation develops and persists.

Rinse mouth. Do not induce vomiting. Immediately give milk, antacid, gelatin, or, if none of these Ingestion

are available, give water. Never give anything by mouth to a victim who is unconscious or is having

convulsions. Call a physician or poison control center immediately.

Most important symptoms/effects, acute and

delayed Indication of immediate

medical attention and special treatment needed

**General information** 

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water, Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

None known.

Specific hazards arising from the chemical

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.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions Move containers from fire area if you can do so without risk. Containers can build up pressure if exposed to heat (fire). Use water spray to keep fire-exposed containers cool and to knock down

vapors which may result from product decomposition.

General fire hazards No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

Material name: Rust Converter SDS US

# 7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get this material in contact with skin. Do not get this material in contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

5 ppm

Conditions for safe storage, including any incompatibilities Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
,		50 ppm	
<b>US. ACGIH Threshold Limit Valu</b>	ues		
Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
2-Butoxyethanol (CAS	TWA	24 mg/m3	

#### **Biological limit values**

111-76-2)

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	*

<sup>\* -</sup> 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

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

Skin protection

Hand protection Wear protective gloves such as: Latex. Rubber. Wear appropriate chemical resistant clothing. Other

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.

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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. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

**Appearance** 

Liquid. **Physical state Form** Liquid.

Color Creamy white. Odor Glue-like. **Odor threshold** Not available. 2.5 - 3.5рH

Melting point/freezing point -103 °F (-75 °C) estimated Initial boiling point and boiling 122 °F (50 °C) estimated

range

None (Tag Closed Cup) Flash point

**Evaporation rate** Slow.

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

1.3 % estimated

(%)

Flammability limit - upper

10.6 % estimated

(%)

20.9 hPa estimated Vapor pressure

Vapor density < 1 (air = 1)1.11 Relative density Miscible. Solubility (water) Partition coefficient

(n-octanol/water)

Not available.

446 °F (230 °C) estimated **Auto-ignition temperature** 

**Decomposition temperature** Not available. Viscosity (kinematic) Not available. 71.8 % estimated Percent volatile

# 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. Heat, flames and sparks. When exposed to extreme heat or Conditions to avoid

hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen

chloride and possibly phosgene.

Strong oxidizing agents. Alkalines. Organics. Will react with rust to form iron tannate. Incompatible materials

Hazardous decomposition

products

Carbon oxides. Acid vapors. Hydrogen chloride. Phosgene.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. Prolonged or excessive inhalation may cause respiratory

tract irritation.

Skin contact May cause an allergic skin reaction.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

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prolonged. These effects have not been observed in humans.

Material name: Rust Converter 4/8 **Eye contact** Direct contact with eyes may cause temporary irritation.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

**Acute toxicity** May cause an allergic skin reaction.

Product	Species	Test Results	
Rust Converter			
<u>Acute</u>			
Dermal			
LD50	Rabbit	4010 mg/kg estimated	
Inhalation			
LC50	Rat	24259 ppm estimated	
		236 mg/l estimated	
Oral			
LD50	Rat	4427 mg/kg estimated	

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

**Respiratory sensitization** Not available.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

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.

**Reproductive toxicity** Possible reproductive hazard. **Specific target organ toxicity -** May cause damage to organs.

single exposure

Specific target organ toxicity - Not classified.

repeated exposure

Aspiration hazard None known.

**Chronic effects** Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

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

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.			
Product		Species	Test Results		
Rust Converter					
Aquatic					
Crustacea	EC50	Daphnia	13984.9277 mg/l, 48 hours estimated		
Fish	LC50	Fish	905.0485 mg/l, 96 hours estimated		

Material name: Rust Converter sps us

**Test Results** Components **Species** 

2-Butoxyethanol (CAS 111-76-2)

**Aquatic** 

Acute

Crustacea EC50 Water flea (Daphnia magna) 1550 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout >= 1000 mg/l, 96 hours

(Oncorhynchus mykiss)

Tannins (CAS 1401-55-4)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 37 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

2-Butoxyethanol 0.81, log Pow

Mobility in soil No data available.

Other adverse effects 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

Disposal of waste from residues / unused products

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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code

Not regulated.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

2-Butoxyethanol (CAS 111-76-2)

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

2-Butoxyethanol (CAS 111-76-2) Listed.

**CERCLA Hazardous Substances: Reportable quantity** 

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.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

**Section 311/312** Immediate Hazard - Yes Delayed Hazard - No **Hazard categories** Fire Hazard - No

Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely** hazardous substance

### **US** state regulations

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

2-Butoxyethanol (CAS 111-76-2)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

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

Ammonium sulfate (CAS 7783-20-2) Sodium sulfate (CAS 7757-82-6) 2-Butoxyethanol (CAS 111-76-2)

**US. Rhode Island RTK** 

2-Butoxyethanol (CAS 111-76-2)

**US. California Proposition 65** 

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

1,4-Dioxane (CAS 123-91-1) Listed: January 1, 1988 Ethanal (CAS 75-07-0) Listed: April 1, 1988 Ethylene oxide (CAS 75-21-8) Listed: July 1, 1987

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

Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009 US - California Proposition 65 - CRT: Listed date/Female reproductive toxin Ethylene oxide (CAS 75-21-8) Listed: February 27, 1987

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

Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009

## Volatile organic compounds (VOC) regulations

**EPA** 

VOC content (40 CFR 53.8 g/l

51.100(s))

**Architectural coatings** Compliant

(40 CFR 59, Subpt. D)

State

This product is regulated as an Architectural Coating for Flat Coatings (interior or exterior). This **Architectural coatings** 

product is compliant for use in all 50 states.

**VOC** content 53.8 g/l

Material name: Rust Converter 7/8 18418, 18419 Version #: 01 Issue date: 04-14-2015

SDS US

## **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)	No
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

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)

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

Issue date 04-14-2015 Prepared by Allison Cho

Version #

**Further information** CRC # 691B **HMIS®** ratings Health: 2 Flammability: 0 Physical hazard: 1 Personal protection: B

Health: 2 **NFPA** ratings 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 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 (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.

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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).