



Material Safety Data Sheet

Date of Preparation: October 3, 2005

Section 1 - Product Information

Product Name: ONE-STEP RUST CONVERTER

Product Code: 3510, 3512, 3513, 3514, 3516

Emergency Phone: Chemtrec 800-424-9300

Company: Bondo Corporation
3700 Atlanta Industrial Parkway NW
Atlanta, GA 30331

Revision Number: 1

Intended Use: Rust Converter

Emergency Overview

Signs of Overexposure: central nervous system effects (dizziness, drowsiness, weakness, fatigue, headache, unconsciousness), Temporary or permanent blindness

Emergency First Aid: Flush eyes with plenty of water. Avoid rubbing eyes. If irritation develops, seek medical attention. Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with head down. Contact physician for advise about whether to induce vomiting. Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. Get medical attention immediately Wash with soap and water. If symptoms persist, get medical attention.

Handling: Do not contact or breathe the material. Use only in a well ventilated area.

Material Physical Appearance: White

Fire Fighting: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Your local fire department may require that you display the NFPA 704 diamond symbol on the front and/or rear entrance to your building.

NFPA 704: Health: 3, Fire: 2, Reactivity: 0

Bondo Corporation has no oversight with respect to the guidance practices or policies or manufacturing processes of other companies handling or using this material. The information given in this MSDS is only related to the product as shipped in its original condition. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by regulations.

Section 2 - Hazardous Ingredients

Chemical Name	%	CAS#	OSHA Exposure Limits
water	40.0 - 50.0	7732-18-5	No PEL established
vinylidene chloride polymer	30.0 - 40.0	mixture	No PEL established
tannic acid	1.0 - 5.0	1401-55-4	No PEL established
Isopropanol	1.0 - 5.0	67-63-0	400 ppm TWA; 980 mg/m3 TWA
Methanol	1.0 - 5.0	67-56-1	200 ppm TWA; 260 mg/m3 TWA
bis(2-Ethylhexyl)phthalate	1.0 - 5.0	117-81-7	5 mg/m3 TWA

Section 3 – Hazards Identification

Routes of Entry: Eye contact, Skin contact, Inhalation, Contact, Absorption, Ingestion

Target Organs Potentially Affected by Exposure: Skin, Respiratory Tract, Eyes, Nervous System, Digestive Tract, Liver, Lungs

Chemical Interactions That Change Toxicity: None Known

Medical Conditions Aggravated by Exposure: Respiratory disease including asthma and bronchitis, Eye disease, Skin disease including eczema and sensitization, Digestive tract disease, Liver disease, Lung disease

Immediate (Acute) Health Effects by Route of Exposure

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Irritation may be delayed for several hours.

Inhalation Toxicity: Harmful! Can cause systemic damage (see "Target Organs")

Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Skin Absorption: Harmful if absorbed through the skin. May cause severe irritation and systemic damage. Contains Methanol. May cause deterioration of the optic nerve if absorbed through the skin in large amounts.**Eye contact:** Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible. Can cause irritation.

Ingestion Irritation: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. This product may be harmful or fatal if swallowed.

Ingestion Toxicity: Toxic if swallowed. May cause target organ failure and/or death. Upon ingestion of a large quantity of this material, visual disturbances may occur. Onset of the response may be delayed.

Long-Term (Chronic) Health Effects

Carcinogenicity: Contains a known human carcinogen Possible cancer hazard!
Contains a material that may cause cancer based on animal data.

Reproductive and Developmental Toxicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs")

Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Skin Absorption: Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage

Ingestion: Toxic if swallowed. May cause target organ failure and/or death.

Section 4 – First Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

Eyes: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean contaminated shoes.

Ingestion: Do not induce vomiting and seek medical attention immediately. Provide medical care provider with this MSDS. If swallowed, do not induce vomiting. Get medical attention immediately. Poison

Notes to Doctor: No additional first aid information available

Section 5 – Fire Fighting Measures

Flammability Summary: Combustible

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon monoxide, Carbon dioxide, Toxic fumes., Toxic gases

Flash Point (SFCC): 39 deg. C 101 deg. F
Lower Flammable/Explosive Limit: Not determined

Section 6 - Accidental Release

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this MSDS.

Methods for Clean-up: No special spill clean-up considerations. Collect and discard in regular trash.

Section 7 – Handling and Storage

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area.

Storage Technical Measures and Conditions: Store in a cool dry place. Isolate from incompatible materials. Keep away from sources of ignition.

Section 8 – Exposure Controls/Personal Protection

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94 Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator. Respiratory protection may be required in addition to ventilation depending upon conditions of use. Wear a NIOSH approved respirator if any exposure is possible.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available. Wear goggles and a Face shield Wear goggles if dusts can reach the exposure limit. An eye wash station must be available where this product is used.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating,

drinking, and when leaving work. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield

Gloves: Required for prolonged or repeated contact. Use solvent resistant gloves.

Barrier creams are not substitutes for full physical protection. Refer to safety equipment supplier for effective glove recommendations.

Control Parameters:

Chemical Name	ACGIH TLV-TWA	ACGIH STEL	IDLH
water	Not established	Not established	Not determined
vinylidene chloride polymer	Not established	Not established	Not determined
tannic acid	Not established	Not established	Not determined
Isopropanol	(400) ppm TWA; (983) mg/m ³ TWA	(500) ppm STEL; (1230) mg/m ³ STEL	Not determined
Methanol	200 ppm TWA; 262 mg/m ³ TWA	250 ppm STEL; 328 mg/m ³ STEL	Not determined
bis(2- Ethylhexyl)phthalate	5 mg/m ³ TWA	(10) mg/m ³ STEL	Not determined

Section 9 – Physical and Chemical Properties

Physical State: Liquid

Color: White

Odor: None

pH: Not determined

Solubility in Water: Not determined

Volatiles, % by weight: 57.96

Volatiles, % by volume: 66.53

Volatile Organic Compounds excluding exempt solvents and water:

1.81Lb/gallon 217.26 g/l

Volatile Organic Compounds including exempt solvents and water:

0.83LB/gallon 99.09g/l

Vapor Density:

Vapor Pressure: Not determined

Boiling Point: Not determined deg. C; 0 deg. F

Specific Gravity: 1.47

Weight per Gallon: 9.2555

Section 10 – Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Contamination

Materials to Avoid/Chemical Incompatibility: Strong oxidizing agents, Strong acids, Strong alkalies, Nitrogen oxides, Metals, Acids

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Toxic fumes., Toxic gases

Section 11 - Toxicological Information

Sensitization (effects of repeated exposure): No data

Component Toxicology Data (NIOSH)

Chemical Name	CAS Number	LD50/LC50
water	7732-18-5	No data available
vinylidene chloride polymer	mixture	No data available
tannic acid	1401-55-4	No data available
Isopropanol	67-63-0	Inhalation LC50 Rat : 16000 ppm/8H; Oral LD50 Rat : 5045 mg/kg; Oral LD50 Mous
Methanol	67-56-1	Inhalation LC50 Rat : 64000 ppm/4H; Oral LD50 Rat : 5628 mg/kg; Oral LD50 Mous
bis(2-Ethylhexyl)phthalate	117-81-7	Oral LD50 Rat : 30 gm/kg; Oral LD50 Mouse : 1500 mg/kg; Dermal LD50 Rabbit : 2

Section 12 - Ecological Information

Overview: Avoid runoff into ground, storm drains or sewers that lead into waterways. Water runoff may cause environmental damage. There are extensive ecological data available on the various components of these products. An adequate representation of all these data is beyond the scope of this document. Please contact the information phone number found in Section 16.

Section 13 – Disposal Information

Waste Description for Spent Product: Spent or discarded material is a hazardous waste.

Disposal Methods: Dispose of in accordance with federal, state or provincial and local pollution requirements. Clean preferably with a detergent, avoid the use of solvents. This information applies only to the material as manufactured; processing, use or contamination may make this information inappropriate, inaccurate or incomplete. The generator of the waste has the responsibility for proper waste classification, transportation and disposal.

Waste Disposal Codes: D001

Section 14 – Transportation Information

DOT Basic Description: US DOT: Combustible Liquid, NOS (Alcohol Solution),
NA 1993, III
Canadian TDG: Chemicals, N.O.S. (NON-REGULATED)
IMDG: Paint Related Material, 3, UN 1263, III, LTD QTY,
Flashpoint 38C, EmS F-E, S-E
For 3515 – IMDG: Paint Related Material, 3, UN 1263, III,
Flashpoint 38C, EmS F-E, S-E

Hazard Class: N/A
UN Number: NA 1993
Packing Group: III

Section 15 - Regulatory Information

Note: Materials listed in this section may be present as trace level contaminants to raw materials. Check Section 2 - Hazardous Ingredients to determine if a significant amount is present

OSHA: This product is considered hazardous under the Federal OSHA Hazard Communication Standard.

WHMIS: B3D2B

SARA Title III:

Section 302 Extremely Hazardous Substances: None

Section 311 / 312 Hazard Categories: Immediate health, delayed health, fire hazard.

Section 313 Toxic Chemicals: methanol, Ethylene glycol

You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202

TSCA status: All components in this product are on the TSCA Inventory.**Canadian**

Domestic Substances List: The components of this product ARE listed on the Canadian Domestic Substances List.

Proposition 65: WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

Section 16 - Preparation Information

Prepared by Bondo Corporation Research and Development Department

Information phone number: (404) 696-2730

Do not handle until the manufacturer's safety precautions have been read and understood. Regulations require that all employees be trained on Material Safety Data Sheets for all products with which they come in contact.

While Bondo Corporation believes that the data contained herein are accurate and derived from qualified sources, the data are not to be taken as a warranty or representation for which Bondo Corporation assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data

and information must be determined by the user to be in accordance with applicable federal, state or provincial and local laws and regulations.