

**Product Name:** Rust-B-Gone  
**Date:** 12/17/2014

SECTION 1 **IDENTIFICATION**

**Supplier:** Phoenix Products Company  
55 Container Drive  
Terryville, CT 06786  
(860) 589-7502

**Distributor:**

**U.S. PERS Emergency Telephone:** 1-800-633-8253

**Product Name:** **Rust-B-Gone**

**Synonyms:** None

**Chemical Name:** Sodium Metabisulfite & Sodium Hydrosulfite mixture.

**Chemical Formula:** Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> & Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub>

**CAS Number:** 7681-57-4 & 7775-14-6

**Product Use:** Rust Remover.

SECTION 2 **HAZARDS IDENTIFICATION**

**Emergency Overview**

**CAUTION**

Eye, skin and respiratory irritant.

May cause allergic reaction in some asthmatics and sulfite sensitive individuals.

**Potential Short Term Health Effects**

**Routes of Exposure:** Eye, Skin contact, Inhalation, Ingestion.

**Eyes:** Causes irritation.

**Skin:** Causes irritation.

**Inhalation:** Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

**Ingestion:** May cause stomach distress, nausea or vomiting.

**Target Organs:** Eyes. Respiratory system. Skin.

**Chronic Effects:** May cause respiratory and/or skin sensitization in sensitive individuals. Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and Symptoms:** Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

**Potential Environmental Effects:** See SECTION 12.

SECTION 3 **COMPOSITION, INFORMATION ON INGREDIENTS**

<b><u>Component</u></b>	<b><u>CAS Number</u></b>	<b><u>Percent</u></b>
Sodium Metabisulfite	7681-57-4	60% - 70%
Sodium Hydrosulfite	7775-14-6	25% - 30%
Sodium Carbonate Anhydrous	497-19-8	5% - 7%

SECTION 4 **FIRST-AID MEASURES**

**Eye Contact:** Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.

**Skin Contact:** Brush away excess of dry material. Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists.

**Inhalation:** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion:** Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

**Notes to Physician:** Symptoms may be delayed.

**General Advice:** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

SECTION 5 **FIRE FIGHTING MEASURES**

**Flammable Properties** Not flammable by WHMIS/OSHA criteria.

**Extinguishing Media**

**Suitable Extinguishing Media:** Dry chemical. Carbon dioxide. Foam.

**Unsuitable Extinguishing Media:** Not available

**Protection of Firefighters**

**Specific hazards arising from the chemical:** Not available.

**Protective equipment for firefighters:** Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous Combustion Products:** May include and are not limited to: Oxides of carbon. Oxides of sulfur. Hydrogen sulfide. Hydrogen chloride.

**Explosion Data**

**Sensitivity to mechanical impact:** Not available

**Sensitivity to static discharge:** Not available

SECTION 6 **ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

**Environmental Precautions:** Prevent entry into waterways, sewers, basements or confined areas.

**Methods for Containment:** Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

**Methods For Cleaning Up:** Should not be released into the environment. Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal

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without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

SECTION 7 **HANDLING AND STORAGE**

**Handling:** Use good industrial hygiene practices in handling this material. Avoid contact with eyes. Avoid contact with skin and clothing. Do not breathe dust from this material. Avoid prolonged or repeated skin contact with this material. Wash thoroughly after handling.

**Storage:** Keep out of reach of children. Store in a closed container away from incompatible materials.

SECTION 8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ingredient(s)	Exposure Limits
Sodium Metabisulfite	ACGIH-TLV: TWA: 5mg/m3
	OSHA-PEL: Not established
Sodium Hydrosulfite	ACGIH-TLV: Not established
	OSHA-PEL: Not established
Sodium Carbonate	ACGIH-TLV: Not established
	OSHA-PEL: Not established

**Engineering Controls:** Use only under good ventilation conditions or with respiratory protection.

**Personal Protective Equipment**

**Eye/Face Protection:** Wear safety glasses with side shields.

**Hand Protection:** Rubber gloves. Confirm with a reputable supplier first.

**Skin and Body Protection:** As required by employer code.

**Respiratory Protection:** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

**General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	White free-flowing powder
<b>pH:</b>	5.5 - 6.5
<b>Melting Point:</b>	Not available
<b>Freezing Point:</b>	Not available
<b>Boiling Point:</b>	Not available
<b>Pour Point:</b>	Not available
<b>Evaporation Rate:</b>	Not available
<b>Flash Point:</b>	None
<b>Auto-ignition Temperature:</b>	Not available
<b>Flammability limits in air, lower, % by volume:</b>	Not applicable
<b>Flammability limits in air, upper, % by volume:</b>	Not applicable
<b>Vapor Pressure:</b>	Not available
<b>Vapor Density:</b>	Not available
<b>Specific Gravity:</b>	Not available
<b>Relative Density:</b>	1.3 - 1.5 G/mL

**Partition coefficient (n-octanol/water):** Not available  
**Viscosity:** Not available  
**Percent Volatile:** Not available

SECTION 10	<b>STABILITY AND REACTIVITY</b>
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**Reactivity:** This product may react with oxidizing agents. This product may react with strong acids.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur.

**Chemical Stability:** Stable under recommended storage conditions.

**Conditions To Avoid:** Do not mix with other chemicals.

**Incompatible Materials:** Acids. Oxidizers.

**Hazardous Decomposition Products:** May include and are not limited to: Oxides of carbon. Oxides of sulfur. Hydrogen sulphide. Hydrogen chloride.

SECTION 11	<b>TOXICOLOGICAL INFORMATION</b>
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**Component Analysis – LC50**

Ingredient(s)	LC50
Sodium Metabisulfite	Not available
Sodium Hydrosulfite	Not available
Sodium Carbonate	400 mg/m <sup>3</sup> guinea pig

**Component Analysis – Oral LD50**

Ingredient(s)	LD50
Sodium Metabisulfite	1131 mg/kg rat
Sodium Hydrosulfite	2500 mg/kg rat
Sodium Carbonate	4090 mg/kg rat

**Effects of Acute Exposure**

**Eye:** Causes irritation.

**Skin:** Causes irritation.

**Inhalation:** Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

**Ingestion:** May cause stomach distress, nausea or vomiting.

**Sensitization:** May cause sensitization by inhalation or skin contact. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.

**Chronic Effects:** Non-hazardous by WHMIS/OSHA criteria.

**Carcinogenicity**

**ACGIH - Threshold Limit Values - Carcinogens**

Sodium Metabisulfite                      7681-57-4

A4 - Not Classifiable as a Human Carcinogen

**IARC - Group 3 (Not Classifiable)**

Sodium Metabisulfite                      7681-57-4

Monograph 54 [1992] (listed under Sulfur dioxide and some sulfites bisulfites and metabisulfites)

**Mutagenicity:** Non-hazardous by WHMIS/OSHA criteria.

**Reproductive Effects:** Non-hazardous by WHMIS/OSHA criteria.

**Teratogenicity:** Non-hazardous by WHMIS/OSHA criteria.  
**Name of Toxicologically Synergistic Products:** Not available.

SECTION 12	<b>ECOLOGICAL INFORMATION</b>
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**Ecotoxicity**

**Ecotoxicity - Freshwater Algae - Acute Toxicity Data**

Sodium carbonate	497-19-8	120 Hr EC50 Nitzschia: 242 mg/L
Sodium hydrosulfite	7775-14-6	72 Hr EC50 Desmodesmus subspicatus: 120 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 87 mg/L
Sodium metabisulfite	7681-57-4	72 Hr EC50 Desmodesmus subspicatus: 48 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 40 mg/L

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data**

Sodium carbonate	497-19-8	96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]; 96 Hr LC50 Pimephales promelas: 310 - 1220 mg/L [static]
Sodium hydrosulfite	7775-14-6	96 Hr LC50 Leuciscus idus: 46 - 68 mg/L [static]
Sodium metabisulfite	7681-57-4	96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]

**Ecotoxicity - Water Flea - Acute Toxicity Data**

Sodium carbonate	497-19-8	48 Hr EC50 Daphnia magna: 265 mg/L
Sodium hydrosulfite	7775-14-6	48 Hr EC50 Daphnia magna Straus: 98 mg/L
Sodium metabisulfite	7681-57-4	24 Hr EC50 Daphnia magna Straus: 89 mg/L

**Persistence/Degradability:** Not available  
**Bioaccumulation/Accumulation:** Not available  
**Mobility in Environmental Media:** Not available  
**Environmental Effects:** Not available  
**Aquatic Toxicity:** Not available  
**Partition Coefficient:** Not available  
**Chemical Fate Information:** Not available  
**Other Adverse Effects:** Not available

SECTION 13	<b>DISPOSAL CONSIDERATIONS</b>
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**Disposal Instructions:** Review federal, state/provincial, and local government requirements prior to disposal.

**Waste from residues/unused products:** Not available

**Contaminated Packaging:** Not available

SECTION 14	<b>TRANSPORTATION DATA</b>
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**DOT:** Not Regulated  
**TDG:** Not Regulated  
**MEX:** Not Regulated

**IMDG:** Not Regulated  
**IATA:** Not Regulated

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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**Canadian Federal 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.

**Canada - WHMIS - Ingredient Disclosure List**

Sodium carbonate	497-19-8	1%
Sodium metabisulfite	7681-57-4	1%

**WHMIS Status:** Controlled  
**WHMIS Classification:** Class D - Division 2A, 2B

**Occupational Safety and Health Administration (OSHA)**  
**29 CFR 1910.1200 Hazardous Chemical** Yes

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

**CERCLA (Superfund) Reportable Quantity:** None

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

<b>Hazard Categories</b>	Immediate Hazard - Yes
	Delayed Hazard - Yes
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - Yes

<b>Section 302 Extremely Hazardous Substance</b>	No
<b>Section 311 Hazardous Chemical</b>	Yes
<b>Clean Water Act (CWA):</b>	Hazardous substance

**State Regulations:** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Sodium metabisulfite	7681-57-4	Present
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**U.S. - Massachusetts - Right To Know List**

Sodium hydrosulfite	7775-14-6	Present
Sodium metabisulfite	7681-57-4	Present

**U.S. - Minnesota - Hazardous Substance List**

Sodium metabisulfite	7681-57-4	Present
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**U.S. - New Jersey - Right to Know Hazardous Substance List**

Sodium hydrosulfite	7775-14-6	sn 1697
Sodium metabisulfite	7681-57-4	sn 1708

**U.S. - Pennsylvania - RTK (Right to Know) List**

Sodium hydrosulfite	7775-14-6	Present
Sodium metabisulfite	7681-57-4	Present

**U.S. - Rhode Island - Hazardous Substance List**

Sodium hydrosulfite	7775-14-6	Flammable
Sodium metabisulfite	7681-57-4	Toxic

**Inventory Name**

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<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	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)

**SECTION 16      *ADDITIONAL INFORMATION***

HMIS/NFPA Ratings:

Health:\*2

Flammability: 0

Physical Hazard: 1

Personal Protection: X

No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers.

Date: 12/17/2014  
Phoenix Products Company