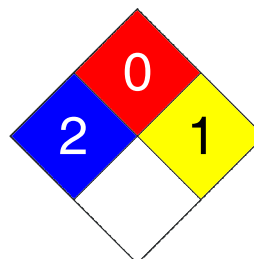


**1. Product and Company Identification**

**Product Name** Red-B-Gone®  
**CAS #** Mixture  
**Product use** Rust & Stain Remover  
**Manufacturer** Pro Products LLC  
 7201 Engle Road  
 Fort Wayne, IN 46804-5875 US  
 Phone 260-483-2519  
 Emergency Phone: 1-800-424-9300 (CHEMTREC)

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 2
Flammability	0
Physical Hazard	1
Personal Protection	B


**2. Hazards Identification**

**Emergency overview** CAUTION  
 EYE AND SKIN IRRITANT.  
 May cause sensitization by inhalation and skin contact.

**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** Not available

**3. Composition / Information on Ingredients**

Ingredient(s)	CAS #	Percent
Sodium carbonate	497-19-8	3 - 7
Sodium hydrosulfite	7775-14-6	15 - 40
Sodium metabisulfite	7681-57-4	15 - 40
Citric acid	77-92-9	1 - 5
Sodium sulfite	7757-83-7	0.5 - 1.5
Sodium bisulfite	7631-90-5	0.1 - 1

**4. First Aid Measures**

**First aid procedures**

**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.

<b>Skin contact</b>	Brush away excess of dry material. Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists.
<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
<b>Notes to physician</b>	Symptoms may be delayed.
<b>General advice</b>	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.

---

## 5. Fire Fighting Measures

---

<b>Flammable properties</b>	Not flammable by WHMIS/OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical. Carbon dioxide. Foam.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of sulphur. Hydrogen sulphide. Hydrogen chloride.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

---

## 6. Accidental Release Measures

---

<b>Personal precautions</b>	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.
<b>Environmental precautions</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for containment</b>	Stop leak if you can do so without risk.
<b>Methods for cleaning up</b>	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 without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

---

## 7. Handling and Storage

---

<b>Handling</b>	Use good industrial hygiene practices in handling this material. Avoid breathing dust. Wash thoroughly after handling.
<b>Storage</b>	Keep out of reach of children. Store in a closed container away from incompatible materials.

## 8. Exposure Controls / Personal Protection

### Exposure limits

Ingredient(s)	Exposure Limits
Citric acid	<b>ACGIH-TLV</b> TWA: 10 mg/m <sup>3</sup> <b>OSHA-PEL</b> TWA: 10 mg/m <sup>3</sup>
Sodium bisulfite	<b>ACGIH-TLV</b> TWA: 5 mg/m <sup>3</sup> <b>OSHA-PEL</b> Not established
Sodium carbonate	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Sodium hydrosulfite	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Sodium metabisulfite	<b>ACGIH-TLV</b> TWA: 5 mg/m <sup>3</sup> <b>OSHA-PEL</b> Not established
Sodium sulfite	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> 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.

## 9. Physical and Chemical Properties

<b>Appearance</b>	Powder
<b>Color</b>	White
<b>Form</b>	Powder
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Solid
<b>pH</b>	Not available
<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>Octanol/water coefficient</b>	Not available
<b>Percent volatile</b>	Not available

## 10. Stability and Reactivity

<b>Reactivity</b>	This product may react with oxidizing agents. This product may react with strong acids.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Oxidizers.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of sulphur. Hydrogen sulphide. Hydrogen chloride.

## 11. Toxicological Information

### Component analysis - LC50

<b>Ingredient(s)</b>	<b>LC50</b>
Citric acid	Not available
Sodium bisulfite	Not available
Sodium carbonate	400 mg/m <sup>3</sup> guinea pig
Sodium hydrosulfite	Not available
Sodium metabisulfite	Not available
Sodium sulfite	5.5 mg/l/4h rat

### Component analysis - Oral LD50

<b>Ingredient(s)</b>	<b>LD50</b>
Citric acid	5040 mg/kg mouse; 3000 mg/kg rat
Sodium bisulfite	1420 mg/kg rat
Sodium carbonate	4090 mg/kg rat
Sodium hydrosulfite	2500 mg/kg rat
Sodium metabisulfite	1131 mg/kg rat
Sodium sulfite	820 mg/kg mouse; 820 mg/kg rat

### Effects of acute exposure

<b>Eye</b>	Causes irritation.
<b>Skin</b>	Causes irritation.
<b>Inhalation</b>	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Sensitization</b>	May cause sensitization by inhalation or skin contact.
<b>Chronic effects</b>	Not classified or listed by IARC, NTP, OSHA and ACGIH.

**Carcinogenicity** See below.

**ACGIH - Threshold Limit Values - Carcinogens**

Sodium bisulfite	7631-90-5	A4 - Not Classifiable as a Human Carcinogen
Sodium metabisulfite	7681-57-4	A4 - Not Classifiable as a Human Carcinogen

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

Sodium bisulfite	7631-90-5	Monograph 54 [1992] (listed under Sulfur dioxide and some sulfites bisulfites and metabisulfites)
Sodium metabisulfite	7681-57-4	Monograph 54 [1992] (listed under Sulfur dioxide and some sulfites bisulfites and metabisulfites)
Sodium sulfite	7757-83-7	Monograph 54 [1992] (listed under Sulfur dioxide and some sulfites bisulfites and metabisulfites)

**Mutagenicity** Not classified or listed by IARC, NTP, OSHA and ACGIH.

**Reproductive effects** Not classified or listed by IARC, NTP, OSHA and ACGIH.

**Teratogenicity** Not classified or listed by IARC, NTP, OSHA and ACGIH.

**Name of Toxicologically Synergistic Products** Not available

---

## 12. Ecological Information

---

**Ecotoxicity** See below

**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**

Citric acid	77-92-9	96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static]
Sodium bisulfite	7631-90-5	96 Hr LC50 Gambusia affinis: 240 mg/L [static]
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]
Sodium sulfite	7757-83-7	96 Hr LC50 Leuciscus idus: 220 - 460 mg/L [static]

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

Citric acid	77-92-9	72 Hr EC50 Daphnia magna: 120 mg/L
Sodium bisulfite	7631-90-5	48 Hr EC50 Daphnia magna: 119 mg/L
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
Sodium sulfite	7757-83-7	24 Hr LC50 Psammehinus miliaris: 330 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

---

## 13. Disposal Considerations

---

**Disposal instructions** Review federal, state/provincial, and local government requirements prior to disposal.

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

**Contaminated packaging** Not available

---

## 14. Transport Information

---

**U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

**Transportation of Dangerous Goods (TDG - Canada)**

Not regulated as dangerous goods.

---

## 15. Regulatory Information

---

### 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

Citric acid	77-92-9	1 %
Sodium bisulfite	7631-90-5	1 %
Sodium carbonate	497-19-8	1 %
Sodium metabisulfite	7681-57-4	1 %

### WHMIS status

Controlled

### WHMIS classification

Class D - Division 2A, 2B

### WHMIS labeling



### 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.

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Sodium bisulfite 7631-90-5 5000 Lb final RQ; 2270 kg final RQ

### CERCLA (Superfund) reportable quantity

Sodium bisulfite: 5000.0000  
Sodium tripolyphosphate: 5000.0000  
Metaphosphoric acid, trisodium salt: 5000.0000

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

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - Yes

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**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 bisulfite	7631-90-5	Present
Sodium metabisulfite	7681-57-4	Present

**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Sodium bisulfite	7631-90-5	5000 Lb final RQ; 2270 kg final RQ
------------------	-----------	------------------------------------

**U.S. - Massachusetts - Right To Know List**

Sodium bisulfite	7631-90-5	Present
Sodium hydrosulfite	7775-14-6	Present
Sodium metabisulfite	7681-57-4	Present

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

Sodium bisulfite	7631-90-5	Present
Sodium metabisulfite	7681-57-4	Present

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Sodium bisulfite	7631-90-5	sn 1685
Sodium hydrosulfite	7775-14-6	sn 1697
Sodium metabisulfite	7681-57-4	sn 1708

**U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances**

Sodium bisulfite	7631-90-5	5000 Lb RQ (air); 100 lb RQ (land/water)
------------------	-----------	--

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

Sodium bisulfite	7631-90-5	Environmental hazard
Sodium hydrosulfite	7775-14-6	Present
Sodium metabisulfite	7681-57-4	Present

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

Sodium bisulfite	7631-90-5	Toxic
Sodium hydrosulfite	7775-14-6	Flammable
Sodium metabisulfite	7681-57-4	Toxic

**Inventory name**

<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)

---

## 16. Other Information

---

**Disclaimer**

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

**Issue date**

23-Jun-2011

**Effective date**

15-Aug-2011

**Expiry date**

15-Aug-2014

**Prepared by**

Dell Tech Laboratories Ltd. (519) 858-5021

**Other information**

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.