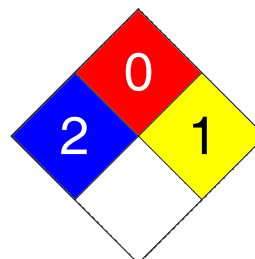


1. Product and Company Identification

Product Name Water Softener Cleaner & Rust Remover, Water Softener Cleaner
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 | X |



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.

3. Composition / Information on Ingredients

| Ingredient(s) | CAS # | Percent |
|----------------------|-----------|-----------|
| Sodium hydrosulfite | 7775-14-6 | 15 - 40 |
| Sodium carbonate | 497-19-8 | 10 - 30 |
| Sodium metabisulfite | 7681-57-4 | 10 - 30 |
| Citric acid | 77-92-9 | 1 - 5 |
| Sodium sulfite | 7757-83-7 | 0.5 - 1.5 |

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.

| | |
|---------------------------|---|
| 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. |

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 |

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 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

| | |
|-----------------|---|
| 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. |

8. Exposure Controls / Personal Protection

Exposure limits

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

9. Physical and Chemical Properties

| | |
|--|----------------|
| Appearance | Free-flowing |
| Color | White |
| Form | Powder |
| Odor | Mint |
| Odor threshold | Not available |
| Physical state | Solid |
| pH | 5.5 - 6.5 |
| Melting point | Not available |
| Freezing point | Not available |
| Boiling point | Not available |
| Pour point | Not available |
| Evaporation rate | Not available |
| Flash point | None |
| Auto-ignition temperature | Not available |
| Flammability limits in air, lower, % by volume | Not applicable |

| | |
|---|----------------|
| Flammability limits in air, upper, % by volume | Not applicable |
| Vapor pressure | Not available |
| Vapor density | Not available |
| Specific gravity | Not available |
| Relative density | 1.3 - 1.5 G/mL |
| Octanol/water coefficient | Not available |
| Viscosity | Not available |
| Percent volatile | Not available |

10. Stability and Reactivity

| | |
|---|---|
| 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. |

11. Toxicological Information

Component analysis - LC50

| Ingredient(s) | LC50 |
|----------------------|----------------------------------|
| Citric acid | Not available |
| Sodium carbonate | 400 mg/m ³ guinea pig |
| Sodium hydrosulfite | Not available |
| Sodium metabisulfite | Not available |
| Sodium sulfite | 5.5 mg/l/4h rat |

Component analysis - Oral LD50

| Ingredient(s) | LD50 |
|----------------------|----------------------------------|
| Citric acid | 5040 mg/kg mouse; 3000 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

| | |
|------------------------|---|
| 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 | See below. |

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) |
| Sodium sulfite | 7757-83-7 | 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

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 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 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 Psammechinus 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 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)

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 Water Act (CWA) 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

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

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

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| 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

14-Nov-2012

Effective date

01-Nov-2012

Expiry date

01-Nov-2015

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.