

1. Product and Company Identification

| | |
|--------------------------------------|---|
| Product identifier | Rid O' Rust Calcium & Scale Preventer |
| Other means of identification | Not available |
| Recommended use | Corrosion inhibitor |
| Recommended restrictions | None known. |
| Manufacturer | Pro Products LLC 7201 Engle Road Fort Wayne, IN 46804-5875 US Phone 260-483-2519 Emergency Phone: 1-800-424-9300 (CHEMTREC) |

2. Hazards Identification

| | | |
|------------------------------|-----------------------------------|------------|
| Physical hazards | Not classified. | |
| Health hazards | Acute toxicity, inhalation | Category 4 |
| | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |

Label elements


| | |
|--|--|
| Signal word | Warning |
| Hazard statement | Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. |
| Precautionary statement | |
| Prevention | Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection. |
| Response | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Specific treatment (see product label). |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | Not applicable. |

3. Composition/Information on Ingredients
Mixture

| Chemical name | Common name and synonyms | CAS number | % |
|------------------------------------|---------------------------------|-------------------|-----------|
| Polyphosphoric acids, sodium salts | | 68915-31-1 | 15 - 40 |
| Sodium acid pyrophosphate | | 7758-16-9 | 3 - 7 |
| Phosphoric acid | | 7664-38-2 | 0.1 - 1.5 |

Composition comments The exact % concentration of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA HCS 1910.1200.

4. First Aid Measures

Inhalation If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

| | |
|---|---|
| Skin contact | If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Specific treatment (see product label). |
| Eye contact | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Ingestion | Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. |
| Most important symptoms/effects, acute and delayed | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. |
| Indication of immediate medical attention and special treatment needed | Treat patient symptomatically. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). 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

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| Suitable extinguishing media | Treat for surrounding material. |
| Unsuitable extinguishing media | Not available. |
| Specific hazards arising from the chemical | Firefighters should wear a self-contained breathing apparatus. |
| Special protective equipment and precautions for firefighters | Firefighters should wear full protective clothing including self contained breathing apparatus. |
| Fire-fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |
| Hazardous combustion products | May include and are not limited to: Oxides of phosphorus. |
| Explosion data | |
| Sensitivity to mechanical impact | Not available. |
| Sensitivity to static discharge | Not available. |

6. Accidental Release Measures

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|--|---|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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 | Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Do not discharge into lakes, streams, ponds or public waters. |

7. Handling and Storage

| | |
|---|--|
| Precautions for safe handling | Avoid contact with eyes and skin. Avoid contact with clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Use good industrial hygiene practices in handling this material. Wash thoroughly after handling. |
| Conditions for safe storage, including any incompatibilities | Store in a closed container away from incompatible materials. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. |

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value |
|---------------------------------|------|---------------------|
| Phosphoric acid (CAS 7664-38-2) | PEL | 1 mg/m ³ |

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|---------------------------------|------|---------------------|
| Phosphoric acid (CAS 7664-38-2) | STEL | 3 mg/m ³ |
| | TWA | 1 mg/m ³ |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|---------------------------------|------|---------------------|
| Phosphoric acid (CAS 7664-38-2) | STEL | 3 mg/m ³ |
| | TWA | 1 mg/m ³ |

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.

Appropriate engineering controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields.

Skin protection

Hand protection Rubber gloves. Confirm with a reputable supplier first.

Other As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards Not available.

General hygiene considerations

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

9. Physical and Chemical Properties

| | |
|---|-----------------|
| Appearance | Clear |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Colorless |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | 4 - 4.5 |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Pour point | Not available. |
| Specific gravity | 1.38 |
| Partition coefficient (n-octanol/water) | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |

| | |
|---------------------------|----------------|
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |

10. Stability and Reactivity

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|---|---|
| Reactivity | This product may react with strong alkalies. |
| 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 | Caustics. Reducing agents. |
| Hazardous decomposition products | May include and are not limited to: Oxides of phosphorus. |

11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

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|---------------------|---|
| Ingestion | May cause stomach distress, nausea or vomiting. |
| Inhalation | Harmful if inhaled. |
| Skin contact | Causes skin irritation. |
| Eye contact | Causes irritation. |

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

| Components | Species | Test Results |
|---|---------------|--------------|
| Phosphoric acid (CAS 7664-38-2) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | 2740 mg/kg |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Rat | 1530 mg/kg |
| Polyphosphoric acids, sodium salts (CAS 68915-31-1) | | |
| Acute | | |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Rat | 3053 mg/kg |
| Sodium acid pyrophosphate (CAS 7758-16-9) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | 7940 mg/kg |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Mouse | 2650 mg/kg |

Skin corrosion/irritation Causes skin irritation.
Exposure minutes Not available.

| | |
|---|---|
| Erythema value | Not available. |
| Oedema value | Not available. |
| Serious eye damage/eye irritation | Causes irritation. |
| Corneal opacity value | Not available. |
| Iris lesion value | Not available. |
| Conjunctival reddening value | Not available. |
| Conjunctival oedema value | Not available. |
| Recover days | Not available. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not available. |
| Skin sensitization | This product is not expected to cause skin sensitization. |
| Germ cell mutagenicity | Non-hazardous by WHMIS/OSHA criteria. |
| Mutagenicity | Non-hazardous by WHMIS/OSHA criteria. |
| Carcinogenicity | Non-hazardous by WHMIS/OSHA criteria. |
| Reproductive toxicity | Non-hazardous by WHMIS/OSHA criteria. |
| Teratogenicity | Non-hazardous by WHMIS/OSHA criteria. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | Not classified. |
| Chronic effects | Non-hazardous by WHMIS/OSHA criteria. |
| Further information | Not available. |
| Name of Toxicologically Synergistic Products | Not available. |

12. Ecological Information

Ecotoxicity See below

| Components | | Species | Test Results |
|---|------|--|---------------------|
| Phosphoric acid (CAS 7664-38-2) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | LC50 | Water flea (Daphnia magna) | 4.6 mg/l, 12 hr |
| Fish | LC50 | Mosquitofish (Gambusia affinis affinis) | 3 - 3.5 mg/l, 96 hr |
| Sodium acid pyrophosphate (CAS 7758-16-9) | | | |
| Aquatic | | | |
| Fish | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) | 840 mg/l, 96 hours |

| | |
|--------------------------------------|---|
| Persistence and degradability | No data is available on the degradability of this product. |
| Bioaccumulative potential | No data available. |
| Mobility in soil | No data available. |
| Mobility in general | Not 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 instructions | Review federal, state/provincial, and local government requirements prior to disposal. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |

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

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 SDS contains all the information required by the Controlled Products Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

Phosphoric acid (CAS 7664-38-2) 1 %

WHMIS status

Controlled

WHMIS classification

Class D - Division 2B

WHMIS labeling**US federal regulations**

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

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

Not regulated.

US CWA Section 311 Hazardous Substances: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Phosphoric acid (CAS 7664-38-2) Listed.

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

Not regulated.

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

Not regulated.

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

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

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations**Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)**

Hazardous substance

Safe Drinking Water Act (SDWA)

Not regulated.

Food and Drug Administration (FDA)

Not regulated.

US state regulations

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

US - California Hazardous Substances (Director's): Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Illinois Chemical Safety Act: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - Louisiana Spill Reporting: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - Minnesota Haz Subs: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - New Jersey RTK - Substances: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - New York Release Reporting: Hazardous Substances: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - Texas Effects Screening Levels: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US. Massachusetts RTK - Substance List

Phosphoric acid (CAS 7664-38-2) Listed.

US. Pennsylvania RTK - Hazardous Substances

Phosphoric acid (CAS 7664-38-2) Listed.

US. Rhode Island RTK

Phosphoric acid (CAS 7664-38-2) Listed.

Inventory status

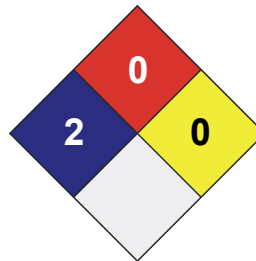
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

| LEGEND | |
|----------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | |
|----------------------------|-----|
| HEALTH | / 2 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | X |

**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 30-March-2015**Effective date** 31-March-2015**Expiry date** 31-March-2018**Further information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.**Prepared by** Dell Tech Laboratories, Ltd. Phone: (519) 858-5021**Other information** This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Redbook revision # 3, 4/1/14

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.