1. Product and Company Identification

Product Name
Poly Guard Liquid

CAS #
Mixture

Product use
Corrosion inhibitor

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

Emergency overview
CAUTION
MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Potential short term health effects

<table>
<thead>
<tr>
<th>Routes of exposure</th>
<th>Potential effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye, Skin contact, Inhalation, Ingestion.</td>
<td>May cause irritation.</td>
</tr>
<tr>
<td>Eyes</td>
<td>May cause irritation.</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause respiratory tract irritation.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May cause stomach distress, nausea or vomiting.</td>
</tr>
<tr>
<td>Ingestion</td>
<td></td>
</tr>
</tbody>
</table>

Target organs
Eyes, Skin.

Chronic effects
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

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium acid pyrophosphate</td>
<td>7758-16-9</td>
<td>3 - 7</td>
</tr>
<tr>
<td>Polyphosphoric acids, sodium salts</td>
<td>68915-31-1</td>
<td>15 - 40</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Eye contact procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flush with cool water. Remove contact lenses, if applicable, and continue flushing.</td>
</tr>
<tr>
<td></td>
<td>Obtain medical attention if irritation persists.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>Skin contact procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flush with cool water. Wash with soap and water.</td>
</tr>
<tr>
<td></td>
<td>Obtain medical attention if irritation persists.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Inhalation procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>Ingestion procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.</td>
</tr>
</tbody>
</table>
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
Treat for surrounding material.

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 phosphorus.

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
Do not discharge into lakes, streams, ponds or public waters.

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
Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling
Use good industrial hygiene practices in handling this material. Avoid contact with eyes and skin. 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

<table>
<thead>
<tr>
<th>Exposure limits</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredient(s)</td>
<td></td>
</tr>
<tr>
<td>Polyporphoric acids, sodium salts</td>
<td>ACGIH-TLV Not established OSHA-PEL Not established</td>
</tr>
<tr>
<td>Sodium acid pyrophosphate</td>
<td>ACGIH-TLV Not established OSHA-PEL Not established</td>
</tr>
<tr>
<td>Engineering controls</td>
<td>General ventilation normally adequate.</td>
</tr>
</tbody>
</table>
9. Physical and Chemical Properties

Appearance: Clear
Color: Colorless
Form: Liquid
Odor: Not available
Odor threshold: Not available
Physical state: Liquid
pH: 4 - 4.5
Melting point: Not available
Freezing point: Not available
Boiling point: Not available
Pour point: Not available
Evaporation rate: Not available
Flash point: Not available
Auto-ignition temperature: Not available
Flammability limits in air, lower, % by volume: Not available
Flammability limits in air, upper, % by volume: Not available
Vapor pressure: Not available
Vapor density: Not available
Specific gravity: 1.38
Octanol/water coefficient: Not available
Viscosity: Not available
Percent volatile: Not available

10. Stability and Reactivity

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.
Hazardous decomposition products: May include and are not limited to: Oxides of phosphorus.

11. Toxicological Information

Component analysis - LC50
Ingredient(s) | LC50
---|---
Polyphosphoric acids, sodium salts | Not available
Sodium acid pyrophosphate | Not available

Component analysis - Oral LD50
Ingredient(s) | LD50
---|---
Polyphosphoric acids, sodium salts | 3053 mg/kg rat
Sodium acid pyrophosphate | 1800 mg/kg rat
### Eye
May cause irritation.

### Skin
May cause irritation.

### Inhalation
May cause respiratory tract irritation.

### Ingestion
May cause stomach distress, nausea or vomiting.

### Sensitization
Non-hazardous by WHMIS/OSHA criteria.

### Chronic effects
Non-hazardous by WHMIS/OSHA criteria.

### Carcinogenicity
Not classified or listed by IARC, NTP, OSHA and ACGIH.

### 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

<table>
<thead>
<tr>
<th>Category</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecotoxicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Persistence / degradability</td>
<td>Not available</td>
</tr>
<tr>
<td>Bioaccumulation / accumulation</td>
<td>Not available</td>
</tr>
<tr>
<td>Mobility in environmental media</td>
<td>Not available</td>
</tr>
<tr>
<td>Environmental effects</td>
<td>Not available</td>
</tr>
<tr>
<td>Aquatic toxicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Chemical fate information</td>
<td>Not available</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 13. Disposal Considerations

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal instructions</td>
<td>Review federal, state/provincial, and local government requirements prior to disposal.</td>
</tr>
<tr>
<td>Waste from residues / unused products</td>
<td>Not available</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 14. Transport Information

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Department of Transportation (DOT)</td>
<td>Not regulated as dangerous goods.</td>
</tr>
<tr>
<td>Transportation of Dangerous Goods (TDG - Canada)</td>
<td>Not regulated as dangerous goods.</td>
</tr>
</tbody>
</table>

### 15. Regulatory Information

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian federal regulations</td>
<td>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.</td>
</tr>
<tr>
<td>WHMIS status</td>
<td>Controlled</td>
</tr>
<tr>
<td>WHMIS classification</td>
<td>Class D - Division 2B</td>
</tr>
<tr>
<td>WHMIS labeling</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Occupational Safety and Health Administration (OSHA)</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>29 CFR 1910.1200 hazardous chemical</td>
<td></td>
</tr>
<tr>
<td>US Federal regulations</td>
<td>This product is a &quot;Hazardous Chemical&quot; as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.</td>
</tr>
</tbody>
</table>
CERCLA (Superfund) reportable quantity
Phosphoric acid: 5000.0000

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

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
Yes

Clean Air Act (CAA)
Not available

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.

Inventory name

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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
05-Oct-2012
Effective date
15-Nov-2012
Expiry date
15-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.