




Water Guard Inc. (WGI)
SAFETY DATA SHEET

Effective Date: May 22, 2015
Revision Date:

I. Product and Company Information

| | | | |
|---|---|-----------------|--|
| Product Name(s): | FERRO-QUEST | Synonym: | |
| Chemical Name: | Polyphosphate Solution | | |
| Manufacturer's Name: Water Guard Inc. P.O. Box 2226 Wilson, N.C. 27894 Customer Service: 1-800-872-7665 Web Site www.waterguardinc.com | Emergency Contacts: Afterhours (PERS)1-800-633-8253 | | |

II. Hazard Identification

| | | | |
|---|---|---|--|
| OSHA HCS / GHS Classification(s): | | Hazard Statement(s): | |
| Skin Irritation 2 -H315 | | Causes skin irritation -H315 | |
| Eye Irritation 2 - H319 | | Causes serious eye irritation - H319 | |
| Signal Word: | Precautionary Statement(s): Avoid contact with eyes. | | |
| WARNING | Prevention: | Wash thoroughly after handling. Keep in original container. Wear protective gloves/clothing/eye and face protection. | |
| Symbol(s):  | Response: | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. | |
| | | IF IN SKIN: Wash with plenty of soap and water | |
| | | For specific treatment: See First Aid Section IV. | |

III. Composition / Information on Ingredients

| Chemical Name: | CAS Reg #'s | % |
|---------------------------------------|--------------------|----------|
| Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | 7 |
| Pyrophosphoric acid potassium salt | 7320-34-5 | 31 |
| Water | 7732-18-5 | Balance |

IV. First Aid Measures

| | |
|-----------------------|--|
| Eyes: | Immediately flush eyes with running water keeping eyelids open. Remove any contact lenses. Seek medical attention. |
| Dermal / Skin: | Remove contaminated clothing and wash exposed area thoroughly with soap and water. Seek medical attention, if you feel unwell. |
| Inhalation: | Move to fresh air immediately. If breathing is difficult, give oxygen. Seek medical attention, if you feel unwell. |
| Ingestion: | If swallowed, DO NOT induce vomiting. Rinse mouth. Seek medical attention, if you feel unwell. |

V. Fire Fighting Measures

| | | | | |
|--|---|------------|---------------------|------------------------------|
| NFPA Hazard Rating: | Health (Blue) | Fire (Red) | Reactivity (Yellow) | Special Instructions (White) |
| | 1 | 0 | 0 | None |
| NFPA Hazard Classification: 0 = Least 1=Slight 2= Moderate 3= High 4= Extreme | | | | |
| Extinguishing Media: | Not Combustible | | | |
| Special Firefighting Procedure: | Wear NIOSH-approved self-contained breathing apparatus (SCBA). Use water spray to keep containers cool and to knock down fumes. Dike fire-control water for later disposal. | | | |

VI. Accidental Release Measures

| | |
|---|--|
| Precaution if Spilled or Released: | Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems. |
| Neutralizing Chemicals: | |

VII. Handling and Storage

| | |
|------------------|---|
| Handling: | Handle all chemicals with respect. Keep separated from incompatible substances. Handle only with equipment, materials and supplies specified by their manufacturer as being compatible and appropriate for use with this product. |
| Storage: | Store at appropriate temperature to protect from freezing or crystallization. Consult the appropriate WGI Product Bulletin for temperature recommendations. Do not store this material near food, animal feed or drinking water. Store in well ventilated area. Store away from excessive heat (e.g. steam pipes, radiators), and from reactive materials. Keep container tightly closed when not in use. |

VIII. Exposure Control / Personal Protective Equipment

| | | | | |
|---|---|--------------------|--------------------------|--------------|
| Component Workplace Control Parameters: | | | | |
| Components: | CAS-No. | Value | Parameters | Basis |
| | | | | |
| Engineering Controls: | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. | | | |
| General Hygiene: | Practice good personal hygiene after using this material, especially before eating, drinking, smoking or using the toilet. | | | |
| Personal Protection Equipment: | | | | |
| Eye: | Use chemical splash goggles. | | | |
| Skin: | Chemically resistant gloves should be worn. Wear long sleeves and/or protective coveralls. | | | |
| Respiratory: | None required under normal conditions. When conditions warrant a respirator, use NIOSH approved respirator. | | | |
| Other Protective Items: | Ensure that eyewash stations and safety showers are proximal to the work-station location. | | | |
| HMIS Classification: | Health (Blue) | Flammability (Red) | Physical Hazard (Yellow) | PPE (White) |
| | 1 | 0 | 0 | See PPE |
| Hazard Classification: 0 = Minimal 1=Slight 2= Moderate 3= Serious 4= Severe | | | | |

IX. Physical and Chemical Properties

| | | | |
|---|-----------------------|--------------------------------|--------------------|
| Physical State: | Liquid | pH: | Approximately 10.2 |
| Appearance: | Clear | Molecular Weight: | N/A |
| Odor: | No Odor | Odor Threshold: | Data Not Available |
| Specific Gravity: (H₂O=1) | 1.42@77°F /25°C | Weight per Gallon: | 11.83 lbs./gal |
| Vapor Density: (Air=1) | Similar to Water | Vapor Pressure: | Similar to Water |
| Boiling Point: | 214°F/101°C Estimated | Freezing/Melting Point: | 4°F/-16°C |
| Lower Explosive Limit: | Not Applicable | Upper Explosive Limit: | Not Applicable |
| Flash Point: | Not Applicable | Autoignition Temp: | Not Applicable |
| Solubility in water: | Soluble | : | |
| Other: | | | |

X. Stability and Reactivity Data

| | |
|---|--|
| Chemical Stability: | Product is stable under normal or expected use. |
| Conditions To Avoid: | None known |
| Incompatible Materials: | None known |
| Hazardous Products of Decomposition: | Thermal decomposition may yield the following: toxic oxides of phosphorus. |

XI. Toxicological Information

| | | | | | | |
|---------------------------------------|--|------------|-------------|--------------|----------------|---------------|
| Routes of Entry: | <input checked="" type="checkbox"/> Eyes <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Inhalation | | | | | |
| Sign and symptoms of Exposure: | May cause irritation to eyes, skin and respiratory passages | | | | | |
| Eye Contact: | May cause mild irritation. | | | | | |
| Ingestion: | May be harmful if swallowed. Large quantities may cause nausea, vomiting, diarrhea. | | | | | |
| Skin Contact: | May cause irritation. | | | | | |
| Inhalation: | May cause respiratory tract irritation. | | | | | |
| Carcinogenicity: | NPT | Not Listed | IARC | Not Listed | OSHA | Not Regulated |
| Ingredient Name: | Species | | Test | Route | Results | |
| Triphosphoric acid, salt | Rat | | 3053 mg/kg | oral | LD50 | |
| Pyrophosphoric acid, salt | Rat | | 4640 mg/kg | Oral | LD50 | |
| Comments: | | | | | | |

XII. Ecological Information

| | | | | |
|---------------------------|---|-------------|---------------|----------------|
| Ingredient Name: | Species | Test | Period | Results |
| No data found for product | | | | |
| Comments: | Decomposes to phosphate that can be bio-nutrient. | | | |

XIII. Disposal Considerations

| | |
|------------------------|--|
| Waste Disposal: | Always dispose of material in accordance with local, state, and federal regulations. |
|------------------------|--|

XIV. Transportation Information

| | | | |
|-------------------------------|-----------------------|----------------------|--|
| Proper Shipping Name: | | | |
| DOT Classification: | Not Regulated | | |
| Identification Number: | Packing Group: | Other Labels: | |

XV. Regulatory Information

| Inventory Status: | | US Regulations: | |
|----------------------------|-----|-----------------|---|
| U. S. TSCA | Yes | SARA 302 TPQ | Not Listed |
| Europe EINECS | Yes | SARA 304 RQ | Not Listed |
| Canadian DSL | Yes | SARA 313 List | Not Listed |
| Japan ENCS | Yes | CERCLA (RQ) | Not Listed |
| Korean TCCL | Yes | RCRA 261.33 | Not Listed |
| Philippines PICCS | Yes | CWA 117 | Not Listed |
| Australian AICS | Yes | CAA 112r (RMP) | Not Listed |
| | | SARA 311/312 | <input checked="" type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Fire <input type="checkbox"/> Release of Pressure <input type="checkbox"/> Reactive |
| International Regulations: | | | Other Regulations: |
| | | | California PROP 65 Not Listed |
| | | | |
| | | | |

XVI. Other Information

| | |
|---------------------------|---|
| NSF Certification: | Yes – NSF Certified to NSF/ANSI std 60 max use level = 36.9mg/l |
| Other: | |
| Revision Notes: | _____ |
| MSDS Replacements | |

IMPORTANT

Although the information contained is offered in good faith, SUCH INFORMATION IS EXPRESSLY GIVEN WITHOUT ANY WARRANTY (EXPRESS OR IMPLIED) OR ANY GUARANTEE OF ITS ACCURACY OR SUFFICIENCY and is taken at the user's sole risk. User is solely responsible for determining the suitability of use in each particular situation. WGI specifically DISCLAIMS ANY LIABILITY WHATSOEVER FOR THE USE OF SUCH INFORMATION, including without limitation any recommendation which user may construe and attempt to apply which may infringe or violate valid patents, licenses, and/or copyright.