



# Safety Data Sheet

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## Section 01 - Identification

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<b>Product Identifier</b>	Sodium Acid Pyrophosphate FG
<b>Other Means of Identification</b>	SAAP, disodium pyrophosphate
<b>Product Use and Restrictions on Use</b>	Water treatment, metal finishing, and food additive.
<b>Initial Supplier Identifier</b>	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
<b>Prepared By</b>	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
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## Section 02 - Hazard Identification

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### GHS-Classification

**Serious Eye Damage/Irritation**      Category 2

### Physical Hazards

No known physical hazards.

### **Warning**

### **Hazards Statements**

H319 – Causes serious eye irritation.

### **Pictograms**



### **Precautionary Statements**

P264 – Wash hands thoroughly after handling.

P280 – Wear eye protection and face protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

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## Section 03 - Composition / Information on Ingredients

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Chemical Name	CAS Number	Weight %	Unique Identifiers
Sodium Acid Pyrophosphate	7758-16-9	100%	

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## Section 04 - First Aid Measures

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<b>Inhalation</b>	Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.
<b>Skin Contact / Absorption</b>	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.
<b>Eye Contact</b>	Immediately flush eye(s) with lukewarm, gently flowing water for 30 minutes while forcibly holding the eyelids open to ensure complete irrigation of the eye tissue. If irritation persists, seek medical attention.
<b>Ingestion</b>	If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head below hips to prevent aspiration of liquid into lungs. Seek medical attention if discomfort occurs.
<b>Additional Information</b>	<p>Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Ingestion of large quantities of phosphate salts (&gt; 1.0 gram for an adult) may cause an osmotic catharsis resulting in diarrhea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the feces with the diarrhea and, thus not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity. Treatment should take into consideration both anionic and cation portion of the molecule. The following treatments should be considered for the specific group(s) of phosphate salts found in the product:</p> <ul style="list-style-type: none"><li>-All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcemia, so calcium levels should be monitored.</li><li>- Ammonium salts have a hypothetical risk of ammonia toxicity. In addition to calcium levels, ammonia and phosphate levels should be monitored.</li><li>-Potassium salts have a hypothetical risk of hyperkalemia which can cause cardiac arrhythmia. In addition to calcium levels, potassium and phosphate levels should be monitored. Also consider continuous EKG monitoring to detect hyperkalemia.</li><li>-Sodium salts have a hypothetical risk of hypernatremia. In addition to calcium levels, sodium and phosphate levels should be monitored.</li></ul>

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## Section 05 - Fire Fighting Measures

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<b>Suitable Extinguishing Media</b>	Product does not burn. Use extinguishing media appropriate for surrounding fire.
<b>Unsuitable Extinguishing Media</b>	Not Available
<b>Specific Hazards Arising From the Chemical</b>	Oxides of phosphorus and potassium may form in a fire.
<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
<b>Further Information</b>	Not Available

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## Section 06 - Accidental Release Measures

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<b>Personal Precautions / Protective Equipment / Emergency Procedures</b>	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.
<b>Environmental Precautions</b>	Prevent materials from entering sewers.
<b>Methods and Materials for Containment and Cleaning Up</b>	Scoop up or vacuum up and place in an appropriate closed container. Avoid raising dust. DANGER! DUST EXPLOSION HAZARD! Flush area with water to remove trace residue. Decontaminate tools and equipment following cleanup.

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## Section 07 - Handling and Storage

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<b>Precautions for Safe Handling</b>	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
<b>Conditions for Safe Storage</b>	Store in a cool, dry well ventilated place, away from heat and ignition sources to maintain product performance. Emptied container retains product residue. Keep container tightly closed and away from alkalis. Product is hygroscopic and can cake during storage.
<b>Incompatibilities</b>	Strong bases, strong oxidizing agents.

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## Section 08 - Exposure Controls and Personal Protection

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### Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Sodium Acid Pyrophosphate	Not Available		

### Engineering Control(s)

<b>Ventilation Requirements</b>	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
<b>Other</b>	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

### Protective Equipment

<b>Eyes/Face</b>	Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.
<b>Hand Protection</b>	Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
<b>Skin and Body Protection</b>	Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.  Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.
<b>Respiratory Protection</b>	Use a NIOSH approved dust respirator.
<b>Thermal Hazards</b>	Not Available

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## Section 09 - Physical and Chemical Properties

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### Appearance

**Physical State** Solid crystals or powder

**Colour** White

**Odour** Odourless

**Odour Threshold** Not Applicable

### Property

**pH** 3.8-4.5 (1% solution)

**Melting Point/Freezing Point** > 900°C

**Initial Boiling Point and Boiling Range** Decomposes

**Flash Point** Not Applicable

**Evaporation Rate** Not Available

**Flammability** Non-Flammable

**Upper Flammable Limit** Not Applicable

**Lower Flammable Limit** Not Applicable

**Vapour Pressure (mm Hg, 20°C)** Not Applicable

**Vapour Density (Air=1)** Not Available

**Relative Density** Not Available

**Solubility(ies)** Soluble in water

**Partition Coefficient: n-octanol/water** Not Available

**Auto-ignition Temperature** Not Applicable

**Decomposition Temperature** 220°C

**Viscosity** Not Applicable

**Explosive Properties** Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

**Specific Gravity (Water=1)** 0.61

**% Volatiles by Volume** Not Available

**Formula** Na<sub>2</sub>H<sub>2</sub>P<sub>2</sub>O<sub>7</sub>

**Molecular Weight** 222.15

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## Section 10 - Stability and Reactivity

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<b>Reactivity</b>	Not Available
<b>Stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	Heat and moisture.
<b>Incompatible Materials</b>	Strong bases, strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Oxides of phosphorus.

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## Section 11 - Toxicological Information

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### Acute Toxicity

<b>Component</b>	<b>Oral LD<sub>50</sub></b>	<b>Dermal LD<sub>50</sub></b>	<b>Inhalation LC<sub>50</sub></b>
Sodium Acid Pyrophosphate	Not Available	> 2000mg/kg (rat)	Not Available

### Chronic Toxicity – Carcinogenicity

<b>Component</b>	<b>IARC</b>
Sodium Acid Pyrophosphate	Not listed as a carcinogen by IARC or ACGIH.

<b>Skin Corrosion/Irritation</b>	Causes skin irritation.
<b>Ingestion</b>	Low toxicity. May cause abdominal discomfort, nausea, vomiting and diarrhea.
<b>Inhalation</b>	Dust may be irritating to the nose, throat, and respiratory tract. May also cause coughing and sneezing by inhalation of dust.
<b>Serious Eye Damage/Irritation</b>	Causes severe eye irritation.
<b>Respiratory or Skin Sensitization</b>	Did not cause sensitization on laboratory animals.
<b>Germ Cell Mutagenicity</b>	Not Available
<b>Reproductive Toxicity</b>	Not Available
<b>STOT-Single Exposure</b>	May cause respiratory tract irritation.
<b>STOT-Repeated Exposure</b>	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation
<b>Aspiration Hazard</b>	Not Available
<b>Synergistic Materials</b>	Not Available

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## Section 12 – Ecological Information

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### Ecotoxicity

<b>Component</b>	<b>Toxicity to Algae</b>	<b>Toxicity to Fish</b>	<b>Toxicity to Daphnia and Other Aquatic Invertebrates</b>
Sodium Acid Pyrophosphate	Not Available	Not Available	Not Available
<b>Biodegradability</b>	Not Available		
<b>Bioaccumulation</b>	Not Available		

**Mobility** Not Available

**Other Adverse Effects** Not Available

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## Section 13 – Disposal Considerations

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**Waste From Residues/Unused Products** Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

**Contaminated Packaging** Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

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## Section 14 – Transport Information

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**UN Number** Not Regulated

**UN Proper Shipping Name** Not Regulated

**Transport Hazard Class(es)** Not Regulated

**Packaging Group** Not Regulated

**Environmental Hazards** Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

**Special Precautions** Not Available

**Transport in Bulk** Not Available

### TDG

**Other** Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

**TDG PRODUCT CLASSIFICATION:** This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

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## Section 15 – Regulatory Information

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**NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.**

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## Section 16 – Other Information

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**Preparation Date** August 31, 2015

**Note:** The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

### **Attention: Receiver of the chemical goods / SDS coordinator**

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution<sup>®</sup> initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

**References:**

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA

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