SECTION 1 - General Information And Chemical Product Identification

Trade Name: Sodium Acid Pyrophosphate, FCC Grade
Chemical Name: Sodium Acid Pyrophosphate
Application/Uses: Buffering and Chelating Agent
Restrictions: None specified

Distributor Information
LidoChem, Inc.   20 Village Court, Hazlet, NJ 07730,  Phone: (732) 888 8000
Fax: (732)  264 2751   *   email: info@lidochem.com

Emergency phone #: CHEMTREC - Day or Night - at 800 424 9300

SECTION 2 - Hazard(s) Identification

Classification of the substance or mixture (GHS-US)

Skin Irritation 2 - H315
Eye Irritation 2 - H319
STOT Single Exposure 3: Respiratory Tract Irritation -
H335  Irritant (Xi) R36/37/38

GHS Precautionary Statements - Prevention, Response, Storage, Disposal

P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P264: Wash ... thoroughly after handling
P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves/protective clothing/eye protection/face protection
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312: Call a POISON CENTER or doctor/physician if you feel unwell
P302+352: IF ON SKIN: Wash with soap and water
P332+313: If skin irritation occurs: Get medical advice/attention
P362: Take off contaminated clothing and wash before reuse
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P337+313: If eye irritation persists get medical advice/attention
P403+233: Store in a well-ventilated place. Keep container tightly closed
P405: Store locked up
P501: Dispose of contents/container to to an approved waste disposal plant in accordance with local, state and federal regulations.

Exclamation

Signal Word
Warning

Physical Hazards
None

Hazard Statement
H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

OSHA Defined Hazards
This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

HNOC - Hazards Not Otherwise Classified

SECTION 3 Composition/Information On Ingredients

Molecular Weight: 222
Chemical FORMULA: Na₂H₂P₂O₇

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Common Name/Synonyms:</th>
<th>% by Wt.</th>
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<tbody>
<tr>
<td>7758-16-9</td>
<td>Sodium Acid Pyrophosphate</td>
<td>.97800</td>
</tr>
</tbody>
</table>

For Chemical Emergencies Call CHEMTREC - Day or Night - at 800 424 9300.

DATE PRINTED: 10/1/2018
SECTION 4 - First Aid Information

Description of first aid measures

General Advice:
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If Inhaled:
Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardiopulmonary resuscitation). Seek medical attention.

In Case Of Skin Contact:
In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention if irritation occurs. Remove contaminated clothing and shoes before reuse or discard if they cannot be thoroughly cleaned.

In Case Of Eye Contact:
Flush eyes with large quantities of running water for a minimum of 15 minutes. If present and easy to do, remove contact lenses. Hold eyelids apart during the flushing to ensure rinsing of entire surface of the eye and lids with water. DO NOT let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils/ointments should not be used at this time. Get medical attention if eye irritation occurs.

If Swallowed:
If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with a finger. **Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.** Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Most important symptoms and effects, both acute and delayed:
Possible irritation to eyes, nose and throat. Large doses may cause nausea, vomiting and diarrhea. Systemic oral toxicity is extremely rare and has consisted of acidosis and hypocalcemia tetany. Refer to section 11 - toxicological information.

Indication of any immediate medical attention and special treatment needed:
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.

SECTION 5 - Fire And Explosion Data

Suitable Extinguishing Media:
Not combustible. Use extinguishing method suitable for surrounding fire.

UnSuitable Extinguishing Media:
None known

Specific Hazards arising from the chemical:
This product is a non-flammable/ Non-combustible inorganic substance. However, hazardous decomposition and combustion products of Oxides of Phosphorus may be formed in a fire situation.

Special protective equipment and precautions for fire-fighters:
Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Structural firefighters’ protective clothing will only provide limited protection.

Fire-fighting equipment/instructions
As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area. Evacuate residents who are downwind of fire. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment. Cool exposed containers with water spray to prevent overheating.

Specific Methods
Standard procedure for chemical fires. LARGE FIRES: Move containers from fire area if you can do it without risk. LARGE FIRES: Do not scatter spilled material with high pressure water streams. LARGE FIRES: Dike fire-control water for later disposal.
Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:
Do not touch or walk through spilled material. Keep Unauthorized personnel away. After wearing and using recommended protective equipment, stop source of spill if safe to do so and dike area to contain spill. See Section 8 for personal protective equipment.

Environmental Precautions:
Flush area with water and ensure that the contaminated water is handled according to applicable laws. Do not flush to drain. LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas, call local fire or police department for immediate emergency assistance. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

Methods and Materials for Containment and Clean Up:
Stop source of spill if safe to do so. Sweep up spilled solid material, being careful not to create dust. Use clean non-sparking tools and equipment. Return sweeping to stock or, if contaminated, place into a chemical waste container for disposal. Wash away residue with water. Decontaminate tools and equipment following cleanup.

Section 7 - Handling and Storage

Precautions for safe handling:
Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts. Do not ingest. Store in tightly closed containers. Store in an area that is cool and dry. Avoid accumulation of dust.

Conditions for safe storage:
Store in a well-ventilated place. Keep container tightly closed. Store in an area that is cool, dry and sanitary. Store away from ignition sources, incompatible materials and isolate from all toxic and harmful substances. Good housekeeping practices should be in place to prevent accumulation of dusts on surfaces.

Incompatibilities:
Strong bases.

Section 8 - Exposure Control and Personal Protection

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Identity:</th>
<th>CAS #:</th>
<th>Exposure Limit Values</th>
<th>SOURCE</th>
<th>OSHA/PPM</th>
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</thead>
<tbody>
<tr>
<td>Sodium Acid Pyrophosphate</td>
<td>7758-16-9</td>
<td>TWA</td>
<td>STEL</td>
<td>ACGIH Threshold Limit Values</td>
</tr>
</tbody>
</table>

Exposure Limits and Appropriate Engineering Controls:
Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting OSHA requirements. The following limits (ACGIH, OSHA and other) apply to this material, where, if indicated, S=Skin and C=CEiling limit: Particulates not otherwise regulated respirable fraction: OSHA: TWA: 5 mg/cu m

Individual Protection Measures, (Personal Protective Equipment):

Eye Protection
Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Skin Protection
Skin contact should be minimized through use of gloves and suitable long sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.
Other Protection:
Minimize breathing dust. Avoid prolonged or repeated breathing of dust and contact with skin. Remove contaminated clothing; launder before reuse. Cleanse skin thoroughly after contact, before meals and end of work period.

Respiratory Protection
When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations.

Ventilation Limits:
Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: local exhaust ventilation at the point of generation.

Hygienic Practices:
All food / smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, hands and face should be thoroughly washed. Facilities storing or using this material should be equipped with an eyewash and safety shower.

### Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance And Odor</td>
<td>Odorless white granular</td>
</tr>
<tr>
<td>pH</td>
<td>3.5 - 4.4%</td>
</tr>
<tr>
<td>Melting Point</td>
<td>decomposes at 220°</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td></td>
</tr>
<tr>
<td>Solubilities</td>
<td>soluble 13g in 100g water (77° F) (25°)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.862 at 25 deg C (77 F)</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>1000 kg/m³</td>
</tr>
<tr>
<td>Other Information</td>
<td></td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>N/A</td>
</tr>
<tr>
<td>LEL</td>
<td>N/A</td>
</tr>
<tr>
<td>UEL</td>
<td>N/A</td>
</tr>
<tr>
<td>Autoignition Temp</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure(mm/hg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Decomposition Temp</td>
<td>N/A</td>
</tr>
<tr>
<td>Reactivity In Water</td>
<td>N/A</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
</tbody>
</table>

### Section 10 - Stability and Reactivity

Chemical Stability and Reactivity:
This material is stable under normal handling and storage conditions.

Possible Hazardous Reactions:

Conditions to Avoid:
None

Incompatible Materials:
Strong bases.

Hazardous Decomposition Products:
When heated to decomposition (220°C), emits toxic fumes of phosphorus oxides and sodium oxides.

For Chemical Emergencies Call CHEMTREC - Day or Night - at 800 424 9300. DATE PRINTED: 10/1/2018
**Section 11- Toxicological Information**

Information On The Likely Routes Of Exposure:  
Inhalation, Ingestion and Dermal

Symptoms Related To The Physical, Chemical And Toxicological Effects:

**Inhalation Effects:**
No test data found for product.

**Skin Effects:**
Skin irritation - rabbit
Moderate irritant following 24 hour exposure.

**Dermal Toxicity:**
LD 50 - lethal dose 50% of test species, 300 mg/kg - rabbit

**Eye Effects:**
Eye irritation - rabbit
Extremely irritating to unwashed eye. Mildly irritating to washed rabbit eye.

**Ingestion Effects:**
LD 50 - lethal dose 50% of test species, 2650 mg/kg - mouse.
LD50 oral - rat >1000mg/kg

**Sensitization:**
No test data found for product.

**Carcinogenicity/Mutagenicity:**
This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens. No data available for mutagenicity.

**Reproductive Effects:**
No test data found for product.

**Neurotoxicity:**
No test data found for product.

**Target Organs:**
No test data found for product.

**Additional Toxicological Information:**
None

**Section 12- Ecological Information**

**Ecotoxicity:**
No test data found for product.

**Degradability:**
No test data found for product.

**Bioaccumulative potential:**
None

**Mobility in the Soil:**
None

**Additional Adverse effect on environment:**
None
SECTION 13 - Disposal Considerations

Disposal Instructions and Regulations:
Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Hazardous Waste Code:

Container Disposal Information:
Be advised that state/local requirements for container disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state/local regulations regarding proper disposal of container.

Section 14 - Transport Information

US DOT, IATA, IMO, ADR: Sodium Acid Pyrophosphate

<table>
<thead>
<tr>
<th>D. O. T. Hazard Class:</th>
<th>Not Regulated by D.O.T.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN #:</td>
<td>None</td>
</tr>
<tr>
<td>RQ:</td>
<td>N/Ap</td>
</tr>
<tr>
<td>Placard:</td>
<td>None</td>
</tr>
<tr>
<td>CAS:</td>
<td>7758-16-9</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>N/A</td>
</tr>
<tr>
<td>Environment Hazards:</td>
<td>Marine Pollutant:</td>
</tr>
<tr>
<td>Special Precautions:</td>
<td>IATA:</td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

US Federal - OSHA Status:
This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

TSCA Status:
Listed/Reportable

U.S. SARA Reporting Requirements:

SARA Title III Hazard Classes Section 302 - EXTREMELY HAZARDOUS SUBSTANCES:
This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.

SARA Title III Hazard Classes Sections 311/312:
Immediate (acute) health hazard

SARA Section 313 Toxic Chemicals:
This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act:
<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels.</td>
</tr>
</tbody>
</table>

SARA Superfund Section 110:
This product does not contain ingredients listed as hazardous substances on the Priority List of CERCLA Hazardous substances.

CERCLA, 40 CFR 117, 302:
This product does not contain ingredients specified in the List of Extremely Hazardous Substances.

CERCLA listed substances are:
none
**Other Federal Reporting Requirements:**

| CAA: | This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act |
| CWA: | No chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA. |
| RCRA: | Not considered a hazardous waste. |

**State Reporting Requirements:**

**State Right to Know Laws:**

**CAS#** | **State RTK** | **Chemical Name** |
--- | --- | --- |
None | |

**CALIFORNIA PROPOSITION 65:**
To the best of our knowledge, this product does NOT contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

**Michigan Critical Materials:**
This product does not contain ingredients listed on the Michigan Critical Materials Register.

**Global Lists/International Inventories:**

**Canada CEPA:** All intentional ingredients are listed on the DSL.

**Canada WHMIS:** Not controlled.

**SECTION 16 - Other Information**

**Medical Conditions Possibly Aggravated by Exposure:**
Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

**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 (over 1.0 grams 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 this product.

All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcemia, so calcium levels should be monitored.

Ammonium salts have a hypothetical risk of ammonia toxicity. In addition to calcium levels, ammonia and phosphate levels should be monitored.

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.

Sodium salts have a hypothetical risk of hypernatremia. In addition to calcium levels, sodium and phosphate levels should be monitored.

8-20-18 - Reviewed, updated California Proposition 65 statement, this replaces all previous SDS’s.
NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Material Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Material Safety Data Sheet available to your employees.

Key Legend Information:

<table>
<thead>
<tr>
<th>N/Ap:</th>
<th>Not Applicable</th>
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</thead>
<tbody>
<tr>
<td>N/R:</td>
<td>Not Rated</td>
</tr>
<tr>
<td>ACGI</td>
<td>American Conference of Gov’tal Industrial Hygienists</td>
</tr>
<tr>
<td>OSHA:</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PEL:</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>STEL:</td>
<td>Short Term Exposure Limit</td>
</tr>
<tr>
<td>IARC:</td>
<td>International Agency for Research on Cancer</td>
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<tr>
<td>SARA Title III:</td>
<td>Superfund Amendments and Reauthorization Act</td>
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<tr>
<td>CAA:</td>
<td>Clean Air Act</td>
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<tr>
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<td>International Air Transport Association Shipping Info.</td>
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<tr>
<td>TLV:</td>
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</tr>
<tr>
<td>TWA:</td>
<td>Time Weighted Average</td>
</tr>
<tr>
<td>NTP:</td>
<td>National Toxicology Program</td>
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<tr>
<td>TSCA:</td>
<td>Toxic Substance Control Act</td>
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<tr>
<td>CERCLA:</td>
<td>Comprehensive Response, Compensation and Liability Act</td>
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<tr>
<td>CWA:</td>
<td>Clean Water Act</td>
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<tr>
<td>IMO:</td>
<td>International Maritime Organization Shipping Info.</td>
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<tr>
<td>WHMIS:</td>
<td>Workplace Hazardous Materials Information System</td>
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</tbody>
</table>

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This Safety Data Sheet was prepared to comply with OSHA Hazard Communication standard. (29 CFR 1910.1200 HazCom 2012). This supersedes any previous information. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by LidoChem, Inc. as to the effects of such use or the results to be obtained, nor does LidoChem,Inc. assume any liability arising out of use, by others, of the products referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist because of applicable laws or government regulations. All LidoChem Inc. SDS’s are reviewed every three years or sooner if necessary. Please check the Review Date on Page 1 for most current version. Please request a new SDS from LidoChem, Inc. if the date is older than 3 years.

For Chemical Emergencies Call CHEMTREC - Day or Night - at 800 424 9300. DATE PRINTED: 10/1/2018