

Material Safety Data Sheet (MSDS)

Product Name: Sodium Acid Pyrophosphate Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Product Identification

- **Chemical Name:** Sodium Acid Pyrophosphate
- **Synonyms:** SAPP, Sodium Acid Pyrophosphate Food Grade
- **CAS Number:** 7758-81-4
- **EC Number:** 231-511-2
- **Recommended Use:** Food additive, leavening agent, sequestrant.

2. Composition / Information on Ingredients

- **Chemical Formula:** $\text{Na}_2\text{H}_2\text{P}_2\text{O}_7$
- **Purity:** $\geq 98\%$ (Food Grade)
- **Hazardous Components:** None in standard food-grade use.

3. Hazard Identification

- **Emergency Overview:** White crystalline powder. Non-flammable. May cause mild irritation if inhaled or in contact with eyes.
 - **Potential Health Effects:**
 - **Inhalation:** Dust may cause respiratory irritation.
 - **Skin Contact:** Generally non-irritating, but prolonged exposure may cause dryness.
 - **Eye Contact:** Can cause mild irritation.
 - **Ingestion:** Safe in normal food quantities; excessive ingestion may cause gastrointestinal discomfort.
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4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse immediately with plenty of water for 15 minutes. Seek medical attention if irritation persists.
 - **Ingestion:** Drink plenty of water. Do not induce vomiting unless directed by medical personnel.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂, foam.
 - **Unsuitable Extinguishing Media:** None known.
 - **Specific Hazards:** Non-flammable, but may release toxic fumes if exposed to intense heat.
 - **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use protective equipment.
- **Environmental Precautions:** Prevent material from entering water bodies.
- **Cleanup Methods:** Sweep or vacuum up carefully. Avoid creating dust.

7. Handling and Storage

- **Handling:** Avoid dust formation. Use with adequate ventilation. Wash hands after handling.
- **Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** Not established for food-grade.
- **Engineering Controls:** Adequate ventilation, dust collection systems.
- **Personal Protective Equipment:**
 - **Respiratory:** Dust mask if exposure exceeds limits.
 - **Hands:** Gloves recommended.
 - **Eyes:** Safety goggles.
 - **Skin:** Protective clothing if prolonged exposure.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **pH:** 4–4.5 (10% solution)
- **Melting Point:** Decomposes before melting
- **Solubility:** Soluble in water
- **Density:** 2.54 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Moisture, high heat.
- **Incompatible Materials:** Strong acids, alkalis.

- **Hazardous Decomposition Products:** Phosphorus oxides on decomposition.
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11. Toxicological Information

- **Acute Toxicity:** Low toxicity; LD₅₀ (oral, rat) > 2000 mg/kg
 - **Chronic Toxicity:** Not established. Safe at typical food-use levels.
 - **Irritation:** Mild eye and respiratory irritation possible.
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12. Ecological Information

- **Ecotoxicity:** Low; not expected to bioaccumulate.
 - **Persistence and Degradability:** Readily soluble; phosphate compounds may contribute to nutrient load in water.
 - **Mobility:** High in water, low soil adsorption.
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13. Disposal Considerations

- **Waste Treatment Methods:** Dispose of in accordance with local regulations.
 - **Contaminated Packaging:** Rinse thoroughly and recycle or dispose of according to local rules.
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14. Transport Information (Detailed)

- **UN Number:** Not regulated for transport
- **Proper Shipping Name:** Sodium Acid Pyrophosphate
- **Transport Hazard Class:** Not classified as hazardous
- **Packing Group:** Not applicable
- **Environmental Hazards:** No significant environmental hazard under normal transport.
- **Transport Precautions:**
 - Protect from moisture and contamination.
 - Ensure containers are securely closed.
 - Avoid transport with strong acids and bases.

- For air, sea, or road transport, follow general chemical transport safety practices.
 - **Special Instructions:**
 - Avoid creating dust clouds in confined transport spaces.
 - Ensure that emergency contact information is accessible.
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15. Regulatory Information

- **Food Additive Status:** Approved for food use under relevant local regulations (e.g., FSSAI, Codex Alimentarius).
 - **Labeling Requirements:** “Food additive – handle with care; avoid dust inhalation.”
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16. Other Information

- **Disclaimer:** This MSDS is prepared based on current knowledge and safety regulations.
Users should ensure suitability for specific applications.
- **References:**
 - FSSAI Guidelines
 - Codex Alimentarius Standards
 - Supplier Safety Data Sheets
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.