



THE POWER OF THREE³

PHARMCO-AAPER

AND COMMERCIAL ALCOHOLS

Product Information (203) 740-3471
Emergency Assistance CHEMTREC 1-800-424-9300

PRODUCT NAME: SODIUM ACID PYROPHOSPHATE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SODIUM ACID PYROPHOSPHATE

Chemical Family: Phosphate Salts

Chemical Name: Diphosphoric Acid, Disodium Salt

Synonyms: SAPP; Pyrophosphate Acid, Disodium Salt; Disodium Dihydrogen Pyrophosphate; Disodium Pyrophosphate

Manufacturer: PHARMCO-AAPER.
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Brookfield, Connecticut
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06804, USA
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Emergency Contact:

CHEMTREC 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component CAS No. % by weight

Sodium Acid Pyrophosphate 7758-16-9 95+

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance and Odor: White powder with no odor

WARNING STATEMENTS

WARNING!

CAUSES EYE AND RESPIRATORY TRACT IRRITATION

MAY CAUSE SKIN IRRITATION

Material Safety Data Sheet

POTENTIAL HEALTH EFFECTS

Likely Routes of Exposure: Skin contact and inhalation

EYE CONTACT: This product may cause pain, redness, and tearing based on toxicity tests.

SKIN CONTACT: This product may cause pain, redness, and swelling. High dust concentrations

were reported to cause mild skin irritation.

INHALATION: This product causes coughing, chest pain, runny nose, and burning throat.

Workers exposed to dust of this product reported moderate irritation of the nose and throat, with

five of the eighteen workers reporting nasal stuffiness and nosebleeds

INGESTION: This product may cause severe nausea, vomiting, abdominal discomfort, and burning

sensation based on toxicity studies.

Refer to Section 11 for toxicological information.

4. FIRST AID MEASURES

IF IN EYES OR ON SKIN, immediately flush with plenty of water. If easy to do, remove any

contact lenses. Get medical attention if irritation persists. Remove contaminated clothing. Remove material from eyes, skin and clothing. Wash clothing before reuse. IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen
IF SWALLOWED, do NOT induce vomiting. Rinse mouth with water, get medical attention.
Contact a Poison Control Center. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not combustible
HAZARDOUS PRODUCTS OF COMBUSTION: Not applicable
EXTINGUISHING MEDIA: Not applicable
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

6. ACCIDENTAL RELEASE MEASURES

In case of spill, sweep, scoop or vacuum and remove. Flush residual spill area with water.
Refer to Section 13 for disposal information and Sections 14 and 15 for reportable quantity information.

7. HANDLING AND STORAGE

HANDLING:

Avoid breathing dust.
Keep container closed.
Use only with adequate ventilation.
Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
Do not taste or swallow
Emptied container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.
STORAGE: Store in a cool, dry place to maintain product performance.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.
SKIN PROTECTION: Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact. Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application. Wash contaminated skin promptly. Launder contaminated clothing and clean protective equipment before reuse. Wash thoroughly after handling.
RESPIRATORY PROTECTION: Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134.

VENTILATION: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

AIRBORNE EXPOSURE LIMITS: OSHA and ACGIH have not established specific exposure limits for this material. However, OSHA and ACGIH have established limits for particulates not otherwise classified (PNOC) which are the least stringent exposure limits applicable to dusts.

OSHA PEL ACGIH TLV
15 mg/m³ (total dust) 8-hr TWA 10 mg/m³ (inhalable) 8-hr TWA
5 mg/m³ (respirable) 8-hr TWA 3 mg/m³ (respirable) 8-hr TWA

Components referred to herein may be regulated by specific Canadian provincial legislation.

Please refer to exposure limits legislated for the province in which the substance will be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Formula: Na₂H₂P₂O₇

Appearance: White powder

Odor: None

pH (as a 1% solution @ 25 C): 4.2-4.9

Melting Point: About 900 degrees C

Solubility in Water: 5.0 (g/100 g H₂O) @ 0 degrees C

12.5 (g/100 g H₂O) @ 25 degrees C

20.0 (g/100 g H₂O) @ 50 degrees C

65 (g/100 g H₂O) @ 75 degrees C

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of storage and handling.

MATERIALS TO AVOID: None known

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

The dry powder may cause foreign body irritation in some individuals.

Prolonged contact with the

dry powder may cause drying or chapping of the skin. Workers exposed to dust of this product

reported moderate irritation of the nose and throat, with five of the

eighteen workers reporting nasal

stuffiness and nosebleeds. High dust concentrations were reported to

cause mild eye and skin

irritation.

Data from Vendor single-dose (acute) animal studies with this material are given below:

Oral - rat LD₅₀ - 3,600 mg/kg; slightly toxic

Dermal - rabbit LD₅₀: > 7,940 mg/kg; practically non-toxic

Eye Irritation - rabbit: 66.5/110; severely irritating

Skin Irritation – rabbit: 0.7/8.0; slightly irritating
Inhalation – LC50>0.58 mg/l, 4 hr (rat) – maximum attainable concentration
No birth defects were reported in mice, hamsters, or rabbits given sodium acid pyrophosphate during pregnancy. No adverse genetic effects were reported in standard tests using animals or bacterial and yeast cells.

12. ECOLOGICAL INFORMATION

Vendor has not conducted environmental toxicity studies with this product. Vendor has not conducted biodegradation studies with this product since when dissolved/hydrolyzed in water it yields completely mineralized materials.

13. DISPOSAL CONSIDERATIONS

This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be landfilled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.
US DOT
Not hazardous for transportation
Canadian TDG
Not hazardous for transportation

15. REGULATORY INFORMATION

TSCA Inventory: Listed
DSL Inventory: Listed
WHMIS Classification: D2(B) – Materials Causing Other Toxic Effects
SARA Hazard Notification
Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA): No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.

The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.