

Material Safety Data Sheet

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1. Product Identification

Product Identity: TRISODIUM PHOSPHATE, DODECAHYDRATE
CRYSTAL

Technical Information: 270-830-1200
Emergency Number: 800-424-9300 (CHEMTREC)

Company Identity: Brenntag Pacific, Inc.
Company Address: 10747 Patterson Place
Santa Fe Springs, CA 90670

Synonyms: Trisodium Phosphate, 12-Hydrate; Phosphoric Acid, Trisodium Salt, Dodecahydrate
Molecular Weight: 380.12
Chemical Formula: $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$

2. Hazards Identification

Emergency Overview

WARNING!
HARMFUL IF SWALLOWED OR INHALED.
CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Potential Health Effects

Inhalation:

Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Behaves as a moderately strong alkali; intense exposure may result in the destruction of mucous membranes. May cause asthmatic bronchitis, chemical pneumonitis, or pulmonary edema.

Ingestion:

Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. May cause mild burning of mouth, throat, and stomach. Its alkaline nature may injure the esophagus and digestive tract. Aqueous, highly alkaline solutions may produce caustic burns.

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**Skin Contact:**

Causes irritation to skin. Symptoms include redness, itching, and pain. Extent of damage depends on duration of contact. More serious effects may occur if the skin is moist. Aqueous, highly alkaline solutions may produce caustic burns.

Eye Contact:

Causes irritation to eyes, may be severe with possible corneal damage. Aqueous, highly alkaline solutions may produce caustic burns.

3. Composition/Information on Ingredients

CAS#	Chemical Name	Percent by Weight
7601-54-9	Sodium Phosphate, Tribasic	100%

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Do NOT induce vomiting. Give large amounts of water. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

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Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Go to Section 9 for Flammable Properties.

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use suitable extinguishing media.

6. Accidental Release Measures

Isolate and ventilate the area and prevent entry to unnecessary and unprotected workers. Wear appropriate personal protective equipment. Prevent exposure to the environment. Clean up material in a way that minimizes generation of dust and fumes and place in a suitable container for proper disposal.

7. Handling and Storage

Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts. Dry powders can build static electricity charges when subjected to the friction of conveying, mixing or sliding. Provide adequate precautions, such as electrical grounding, or inert atmospheres when material is used in the presence of flammable materials to prevent ignition.

8. Exposure Controls/Personal Protection

OSHA Permissible Exposure Limit (PEL): None Found

OSHA PEL for Particles not otherwise regulated (PNOR):

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Total Dust: 15 mg/m³
Respirable Fraction: 5 mg/m³

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. Personal Respirators (NIOSH Approved): If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Consult your industrial hygienist.

Skin Protection:

Use impervious gloves, clothing, boots, and equipment to prevent contact with this material. Consult your industrial hygienist.

Eye Protection:

Splash-proof or dust resistant goggles are advised. Consult your industrial hygienist.

9. Physical and Chemical Properties

Appearance: White
Odor: Odorless
Physical State: Solid
pH: Strongly alkaline
Melting Point: No Information Found

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Boiling Point:	No Information Found
Flash Point:	No data
Upper Explosive Limit:	No data
Lower Explosive Limit:	No data
Vapor Pressure:	No data
Vapor Density:	No data
Specific Gravity:	1.62
Solubility in Water:	Appreciable (> 10%)

10. Stability and Reactivity

Chemical Stability: Stable under normal temperature and pressure.

Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

Incompatible Materials: Reacts violently with water and acids to liberate heat.

Hazardous Decomposition Products: Sodium and phosphorus oxides may form when heated to decomposition.

Polymerization: Will not occur.

11. Toxicological Information

Acute Oral/Dermal/Inhalation Effects

LD50 = 7400 mg/kg (oral Rat)

Investigated as a mutagen.

12. Ecological Information

No Information Found.

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13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not Regulated by Air, Water, or Land

15. Regulatory Information

SARA 302
Not Listed

SARA 304
Not Listed

SARA 313
Not Listed

CERCLA
Not Listed

TSCA Inventory
Yes

California Proposition 65
Not Listed

16. Other Information

This MSDS is provided as an information resource only. It should not be taken as a warranty or representation for which Brenntag Pacific, Inc. assumes legal liability. While Brenntag Pacific, Inc. believes the information contained herein is accurate and compiled from sources believed to be reliable, it is the responsibility of the user to investigate and verify its identity. The buyer assumes all responsibility for using and handling the product in accordance with applicable federal, state, and local regulations.

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