



Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EUROPHOS TSP 12H₂O Technical / Food Grade

MSDS Number: P00000887 Date: 7/8/2003

Chemical Family: phosphate salts

Chemical Name: Sodium Orthophosphate Dodecahydrate

Synonyms: Trisodium orthophosphate dodecahydrate
Trisodium monophosphate dodecahydrate
Sodium phosphate tribasic dodecahydrate.
TSP Crystalline

Prayon Inc. 1610 Marvin Griffin Road Augusta, Georgia 30906

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT
Call CHEMTREC - Day or Night - 1-800-424-9300 Toll free in the continental U.S., Hawaii, Puerto Rico, Canada, Alaska, or Virgin Islands. For calls originating elsewhere: 703-527-3887 (collect calls accepted)

For additional non-emergency information, call: 1-800-4PRAYON (477-2966)

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>% by weight</u>
Trisodium phosphate dodecahydrate	010101-89-0	>=95%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance and Odor: Hygroscopic Crystals

WARNING STATEMENTS

CAUTION!

MAY CAUSE IRRITATION RESPIRATORY TRACT

MAY CAUSE IRRITATION TO SKIN

MAY CAUSE IRRITATION TO EYES

IF INGESTED IN LARGE AMOUNTS, MAY CAUSE NAUSEA, VOMITING, AND DIARRHEA

POTENTIAL HEALTH EFFECTS

Likely Routes of Exposure: skin contact and inhalation

EYE CONTACT: IRRITANT

SKIN CONTACT: IRRITANT

INHALATION: IRRITANT

INGESTION: NAUSEOUS

4. FIRST AID MEASURES

IF IN EYES , Rinse immediately with clean water for 15 minutes, seek medical attention.

IF INHALED, Remove to fresh air. If feeling unwell immediately seek medical attention.

IF SWALLOWED, DO NOT INDUCE VOMITING, Immediately rinse mouth with water. A physician or Poison Control Center can be contacted for advice.

IF ON SKIN, Rinse skin immediately with plenty of water, remove contaminated clothes and shoes.

5. FIRE FIGHTING MEASURES

FLASH POINT: not combustible

HAZARDOUS PRODUCTS OF COMBUSTION: on exposure to high temperature, may decompose, releasing toxic gases

EXTINGUISHING MEDIA , for packaging: Water, CO₂, Foam, Powder.

UNUSUAL FIRE AND EXPLOSION HAZARDS: none known

6. ACCIDENTAL RELEASE MEASURES

In case of spill, sweep, scoop or vacuum and remove. If possible, complete cleanup on a dry basis. After all practical dry cleanup, residual contamination can be flushed with plenty of 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.

Empty 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: This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

SKIN PROTECTION: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin 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 CFR 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Formula: $\text{Na}_3\text{PO}_4 \cdot 0.25 \cdot \text{NaOH} \cdot 12\text{H}_2\text{O}$ or $4(\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}) \text{NaOH}$

Appearance: White Crystals
Odor: none
pH: 12.2 (as a 1% solution)
Melting Point: 75 degrees C
Bulk Density: 0.9 g/cm³
Solubility in Water: 33g/100g 20 degrees C

10. STABILITY AND REACTIVITY

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

MATERIALS TO AVOID: Aqueous solutions will react with aluminum, generating hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: none.

CONDITIONS to AVOID: Heat, Moisture.

11. TOXICOLOGICAL INFORMATION

Oral - rat LD50: 7400 mg/kg

Dermal - rabbit LD50: > 7,940 mg/kg

Inhalation – rat : No data available

Eye Irritation – Can cause severe irritation of the eyes (redness, stinging).

Skin Irritation – May cause irritation to damp or wet skin.

Inhalation – May cause irritation to the respiratory tract.

Ingestion – Can cause irritation to the mouth and esophagus.

12. ECOLOGICAL INFORMATION

Ecological Effects Information: Phosphates are plant nutrient and as such may contribute to the growth of phytoplanktons in water.

Values	Classifications
LC50 –96 Hour – Fish mg/L	No Data Available
48 Hour EC50 – Daphnia magna [mg/L]	No Data Available
IC50 72 Hour Algae [mg/L]	No Data Available

13. DISPOSAL CONSIDERATIONS

EPA Hazardous Waste: NO

Dry material may be land filled or recycled in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

Hazard Class: 9

Environmentally Hazardous Substance, Solid, NOS

ID Number: UN3077

15. REGULATORY INFORMATION

Inventory:

United States (TSCA) YES

Canada(DSL) YES

Europe (EINECS/ELINCS) YES

Australia (AICS) YES

Japan (MITI) YES

South Korea (KECL) YES

SARA Hazard Notification: YES (Acute Health Hazard)

OSHA: Hazard YES

CERCLA Reportable Quantity: 5000 lbs.

16. OTHER INFORMATION

Information	Health	Flammability	Reactivity	Additional
NFPA-	1	0	1	NONE
HMIS-	1	0	1	E

17. LATEST REVISION CHANGES

3/10/2005 MSDS reviewed and section 16 added.

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