


Section 1. Product and Company Identification

Product Name Tetrasodium Pyrophosphate
CAS Number 7722-88-5

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

H318 - Causes serious eye damage.

H302 - Harmful if swallowed.

Precautionary Statements

Prevention:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.



Former EU classification:

Xn - Harmful
R 22 Harmful if swallowed.
R 41 Risk of serious damage to eyes.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Section 3. Composition / Information on Ingredients

Common Name Tetrasodium Pyrophosphate
Synonym(s) TSPP; Sodium Pyrophosphate Tetrabasic
Formula $\text{Na}_4\text{P}_2\text{O}_7$
CAS Number 7722-88-5

COMPONENT	CAS NUMBER	CONCENTRATION
Tetrasodium Pyrophosphate Anhydrous	7722-88-5	95%+

Section 4. First Aid Measures

General: Treatment is symptomatic and supportive.

Eye contact: Immediately flush eyes with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist immediately.

Skin contact: Wash with plenty of soap and water. Get medical attention if irritation occurs/persists

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Inhalation of the dust may cause coughing, runny nose, and sneezing.

Ingestion: Rinse mouth with plenty of water. Dilute by drinking 1 to 2 glasses of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention. Contact a Poison Control Center.

Section 5. Firefighting Measures

Extinguishing media: Non-combustible. No special requirement.

Unsuitable extinguishing media: Non-combustible. No special requirement.

Exposure hazards: No special considerations.

Protective equipment: As a general precaution, firefighters, and others exposed, wear self-contained breathing apparatus.

Section 6. Accidental Release Measures

Personal precautions: No special requirement.

Environmental precautions: Small quantities: Presents no environmental problems.

Large quantities: As general precaution, avoid discharge into the environment.



Methods for cleaning up: Sweep, scoop or vacuum and place into containers for disposal.

Section 7. Handling and Storage

Handling

Avoid contact with eyes.
Avoid breathing dust
Keep container closed
Use only with adequate ventilation.
Avoid contact with skin.
Wash thoroughly after handling.
Do not taste or swallow.

Engineering measures

Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see Section 8 below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. If ventilation is inadequate or not available, use respiratory and eye protection to prevent irritation.

Storage: Store in cool, dry place to maintain product performance.

Section 8. Exposure Controls / Personal Protection

Occupational exposure limit

State	Standard	Limit
Australia	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Belgium	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Denmark	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Finland	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA, 3 mg/m ³
France	Occupation Exposure Limit	VME 5 mg/m ³
Norway	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Switzerland	Occupation Exposure Limit	MAK - week 5 mg/m ³
United Kingdom	Occupation Exposure Limit	5 mg/m ³ 8-hr TWA
United States	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment; a dust and vapor respirator is recommended by HMIS. Use approved respiratory protective equipment as described in the U.S. OSHA 29 CFR 1910.134 or European Standard EN149.

Hand/skin protection: Wearing protective clothes is recommended; protective gloves and synthetic apron is recommended by HMIS. Wash hand and contaminated skin thoroughly after handling this product.



Eye protection: Wear appropriate protective eyeglasses or chemical safety goggles as described in the U.S. OSHA 29 CFR 1910.133 or European Standard EN 166. Splash goggles are recommended by HMIS.

Section 9. Physical and Chemical Properties

General Information

Chemical Formula: $\text{Na}_4\text{P}_2\text{O}_7$

Form: Powder, free flowing

Color: White

Odor: Odorless

pH (1% solution): 10.3

Water solubility: 6.4 (g/100g H_2O) @ 25°C

Melting point: Incongruently @ 622°C, completely @ 985°C

Bulk density: 0.88 (g/cc)

Section 10. Stability and Reactivity

Product is stable under normal conditions of storage and handling. Store in a cool, dry place to maintain product performance.

Conditions to avoid: Excessive moisture.

Materials to avoid: None

Hazardous decomposition products: Oxides of sodium and oxides of phosphorus.

Section 11. Toxicological Information

Laboratory data

Data from ICL Performance Products LP single-dose (acute) animal studies with this material are given below:

Oral – rat LD50: 3,770 mg/kg; slightly toxic

Dermal – rabbit LD50: > 7,940 mg/kg; practically nontoxic

Eye Irritation – rabbit: Corrosive

Skin Irritation – rabbit (24-hr exp.): 0.0/8.0; non-irritating

Rats fed this material in their diet for four months showed a reduced weight gain, urinary changes, increased organ-to-body weight ratios, and slight kidney damage. No birth defects were reported in rabbits, hamsters, mice or rats given this material during pregnancy. This material produced no genetic changes in standard tests using bacterial and yeast cells.

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).



Section 12. Ecological Information

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity.

Invertebrate

48-hr EC50 Daphnia magna: 391 mg/L; Practically Nontoxic

Fish

96-hr LC50 Mosquito fish: 1380 mg/L; Practically Nontoxic

48-hr LC50 High-eyes Medaka: 700 mg/L; Practically Nontoxic

No algal toxicity data was available for this material.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Road/Rail, Sea, and Air

IMDG/UN: Not classified

ICAO/IATA: Not classified

RID/ADR: Unknown

Canadian TDG: Not classified

US DOT: Not classified

Section 15. Regulatory Information

EC label

Hazard symbol: Xn - Harmful

Risk phrases

R 22 Harmful if swallowed.

R 41 Risk of serious damage to eyes.

Safety phrases

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Chemical Inventory

USA - TSCA: Listed

Canada - DSL: Listed

EC: Listed



Japan: Listed
Australia: Listed
Korea: Listed
Philippines: Listed
China: Listed

Additional information

WHMIS Classification: D2(B) Materials causing other toxic effects

SARA Hazard Notification

Hazard Categories under Title III Rules (40 CFR 370): Immediate

Section 302 Extremely Hazardous Substances: None

Section 313 Toxic Chemical(s): None

CERCLA Reportable Quantity: Not applicable

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contains all the information required by the Canadian Controlled Products Regulation.

HMIS Rating

Health: 3

Flammability: 0

Reactivity: 0

Personal Protection: J

NFPA Rating

Health: 3

Flammability: 0

Reactivity: 0

Protective Equipment: Splash goggles, gloves, synthetic apron, and dust & vapor respirator

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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