



# Tetrasodium Pyrophosphate, Tech. Grade

## SAFETY DATA SHEET

Page: 1 of 8

SDS#: 1251

Review/Revision Date: 05/15/17

### SECTION 1 - General Information And Chemical Product Identification

Trade Name: **Tetrasodium Pyrophosphate, Tech. Grade**

CAS #: **7722-88-5**

Chemical Name: **Tetrasodium Pyrophosphate, Anhydrous**

Product Code:  
**TSPPTGRE**

Application/Uses/ **Used as a cleaning agent and in detergents, metal treatment and paints.**

Restrictions **None specified**

Distributor Information **LidoChem, Inc. 20 Village Court, Hazlet, NJ 07730, Phone: (732) 888 8000  
Fax: (732) 264 2751 \* email: info@lidochem.com**

Emergency phone #: **CHEMTREC - Day or Night - at 800 424 9300**

### SECTION 2 - Hazard(s) Identification

#### Classification of the substance or mixture (GHS-US)

Acute Toxicity Oral Cat 4 H302  
Eye Irritation Cat 2 - H319

#### GHS Precautionary Statements - Prevention, Response, Storage, Disposal

P264: Wash thoroughly after handling

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

#### Physical Hazards

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

#### Hazard Statement

H302: Harmful if swallowed

H319: Causes serious eye irritation

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P337+313: If eye irritation persists get medical advice/attention

#### OSHA Defined Hazards

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910,1200.

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330: Rinse mouth

#### HNOC - Hazards Not Otherwise Classified

P501: Dispose of contents/container in accordance with local, regional, national and/or international regulations.



Signal Word

**Warning**

### SECTION 3 Composition/information On Ingredients

Molecular Weight:

Chemical FORMULA:

CAS#:	Common Name/Synonyms:	% by Wt.
7722-88-5	Tetrasodium Pyrophosphate, Anhydrous	95%

## SECTION 4 - First Aid Information

### Description of first aid measures

#### General Advice:

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If Inhaled:

Remove to fresh air. If breathing becomes difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration. Get medical attention.

#### In Case Of Skin Contact:

In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes before reuse or discard if they cannot be thoroughly cleaned..

#### In Case Of Eye Contact:

Flush eyes with large quantities of running water for a minimum of 15 minutes. If present and easy to do, remove contact lenses. Hold eyelids apart during the flushing to ensure rinsing of entire surface of the eye and lids with water. DO NOT let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils/ointments should not used at this time. Get medical attention if eye irritation occurs.

#### If Swallowed:

If victim is conscious, give 2-3 glasses of water to drink and DO NOT induce vomiting. **Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.** Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Persons attending victim should avoid direct contact with heavily contaminated clothing and vomit. Wear impervious gloves while decontaminating skin/hair.

#### Most important symptoms and effects, both acute and delayed:

May cause irritation to eyes, skin and upper respiratory tract. Ingestion may cause damage to mouth, throat and gastrointestinal tract. May cause nausea, vomiting, cramps, diarrhea and ulceration.

#### Indication of any immediate medical attention and special treatment needed:

Refer to Section 11 - Toxicological Information.

## SECTION 5 - Fire And Explosion Data

### Suitable Extinguishing Media:

Not combustible. Use extinguishing method suitable for surrounding fire. LARGE FIRES: Move containers from fire area if you can do it without risk. LARGE FIRES: Do not scatter spilled material with high pressure water streams. LARGE FIRES: Dike fire-control water for later disposal.

### UnSuitable Extinguishing Media:

None Known

### Specific Hazards arising from the chemical:

None known

### Special protective equipment and precautions for fire-fighters:

Fire fighters should wear NIOSH/MSHA approved self contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

### Fire-fighting equipment/instructions

Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

### Specific Methods

Use extinguishing method suitable for surrounding fire. LARGE FIRES: Move containers from fire area if you can do it without risk. LARGE FIRES: Do not scatter spilled material with high pressure water streams. LARGE FIRES: Dike fire-control water for later disposal.

**Section 6 - Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures:**

Ventilate closed spaces before entering. Wear appropriate protective gear for the situation. Do not walk through spilled material. Keep unauthorized personnel away.

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

**Environmental Precautions:**

Do not flush to drain. If spilled on the ground, the affected area should be scraped clean and placed in a appropriate container for disposal. Prevent material from entering public sewer system or any waterways. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

**Methods and Materials for Containment and Clean Up:**

Avoid generating dust.

SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

Clean up residual material by washing area with water. Collect washings for disposal. Decontaminate tools and equipments after cleanup.

LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading.

**Section 7- Handling and Storage**

**Precautions for safe handling:**

Keep containers closed when not in use. Do not breathe (dust, vapor or spray mist) Do not get on skin or in eyes. Do not ingest. Do not use in areas without adequate ventilation. Do not use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

**Conditions for safe storage:**

Store in an area that is sanitary, dry, well ventilated, cool and away from food stuff or animal feed. Isolate from all toxic and harmful substances, away from ignition sources.

**Incompatibilities:**

No data available

**Section 8 - Exposure Control and Personal Protection**

**Occupational Exposure Limits:**

Chemical Identity:	CAS #:	Exposure Limit Values		SOURCE	OSHA/PPM
		TWA	STEL		PEL
Tetrasodium Pyrophosphate, Anhydrous	7722-88-5			ACGIH Threshold Limit Values	15 mg/cu m
				ACGIH Threshold Limit Values	
				ACGIH Threshold Limit Values	

**Exposure Limits and Appropriate Engineering Controls:**

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting OSHA requirements. The following limits (ACGIH, OSHA and other) apply to this material, where, if indicted, S=skin and C=ceiling limit.

ACGIH: TWA: 5 mg/cu m                      OSHA: TWA: 5 mg/cu m

**Individual Protection Measures, (Personal Protective Equipment):**

**Eye Protection**

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. Wear a minimum of safety glasses with side shields when working in industrial environments.

**Skin Protection**

Skin contact should be minimized through use of gloves and suitable long sleeved clothing(i.e. shirts and pants). Considerations must be given both to durability as well as permeation resistance.

**Other Protection:**

Minimize breathing dust. Avoid prolonged or repeated breathing of dust and contact with skin. Remove contaminated clothing; launder before reuse. Cleanse skin thoroughly after contact, before meals and end of work period.

**Respiratory Protection**

For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

**Ventilation Limits:**

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: local exhaust ventilation at the point of generation.

**Hygienic Practices:**

All food / smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, hands and face should be thoroughly washed. Facilities storing or using this material should be equipped with an eyewash and safety shower.

**Section 9 - Physical and Chemical Properties**

**Appearance And Odor:** Odorless, white crystalline granular

**pH:** 10.2

**Melting Point:** 985 deg C

**Freezing Point:** No data available

**Boiling Point:** No data available

**Flash Point:** No data available

**Evaporation Rate:** No data available

**Solubilities:** Water Solubility 7%

**Specific Gravity:** 2.534

**Bulk Density:** 0.5 to 1 g/cm<sup>3</sup>

**Other Information:**

**Flammable Limits:** Not flammable

**UEL:** No data available

**LEL:** No data available

**Vapor Pressure(mm/hg):** 0 mmHg/ (torr)

**Vapor Density(air=1):** No data available

**Autoignition Temp:** No data available

**Decomposition Temp:** No data available

**Reactivity In Water:** No data available

**Viscosity:** No data available

**Section 10 - Stability and Reactivity****Chemical Stability and Reactivity:**

This material is stable under normal handling and storage conditions.

**Possible Hazardous Reactions:**

Hazardous polymerization will not occur

**Conditions to Avoid:**

Dusting, moisture

**Incompatible Materials:**

No data available

**Hazardous Decomposition Products:**

None Known

## Section 11- Toxicological Information

**Information On The Likely Routes Of Exposure:** Inhalation, Ingestion and Dermal.

**Symptoms Related To The Physical, Chemical And Toxicological Effects:**

**Inhalation Effects:**

No test data found for product.

**Skin Effects:**

Very hazardous in case of skin contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (sensitizer, permeator).

**Dermal Toxicity:**

LD 50 - lethal dose 50% of test species, > 2000 mg/kg, rabbit

**Eye Effects:**

Eye irritation, 100 mg - rabbit Severe irritant, reversible

**Ingestion Effects:**

LD 50 - lethal dose 50% of test species, 4000 mg/kg - rat. LD 50 - lethal dose 50% of test species, 2980 mg/kg - mouse

LD 50 - lethal dose 50% of test species, 2150 mg/kg (male) - rat LD 50 - lethal dose 50% of test species, 1825 mg/kg (female) - rat

**Sensitization:**

No test data found for product.

**Carcinogenicity/Mutagenicity:**

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens. No data available for mutagenicity.

**Reproductive Effects:**

No test data found for product.

**Neurotoxicity:**

No test data found for product.

**Target Organs:**

No test data found for product. The substance is toxic to blood, lungs.

**Additional Toxicological Information:**

None

## Section 12- Ecological Information

**Ecotoxicity:** No test data found for product.

**Degradability:** No test data found for product.

**Bioaccumulative potential:**

**Mobility in the Soil:**

**Additional Adverse effect on environment:**

No specific biodegradation test data located. While the alkalinity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate into biological systems.

**SECTION 13 - Disposal Considerations**

**Disposal Instructions and Regulations:**

Chemical additions, processing or otherwise altering this material may make the waste management information present in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

**Hazardous Waste Code:** Not considered a hazardous waste.

**Container Disposal Information:**

Be advised that state/local requirements for container disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state/local regulations regarding proper disposal of container.

**Section 14 - Transport Information**

**US DOT, IATA, IMO, ADR:**

**Proper Shipping Name:** Tetrasodium Pyrophosphate Tech Grade

**D. O. T. Hazard Class:** Not Regulated

**UN #:** none

**Label Requirement:** None

**RQ:** N/Ap

**Placard:** None

**CAS:** 7722-88-5

**Packing Group:** N/A

**ERG Book Information:** None

**Environment Hazards:** No

**Marine Pollutant:** No

**Special Precautions:** No

**IATA:** Not regulated as dangerous goods.

**Section 15 - Regulatory Information**

**US Federal - OSHA Status:**

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910,1200.

**TSCA Status:**

Listed/Reportable

**U.S. SARA Reporting Requirements:**

**SARA Title III Hazard Classes Section 302 - EXTREMELY HAZARDOUS SUBSTANCES:**

This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.

**SARA Title III Hazard Classes Sections 311/312:**

Immediate (acute) health hazard

**SARA Section 313 Toxic Chemicals:**

This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act:

**CAS#      Chemical Name:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels.

**SARA Superfund Section 110:**

This product does NOT contain ingredients listed as hazardous substances on the Priority List of CERCLA Hazardous substances.

**CERCLA, 40 CFR 117, 302:**

This product does not contain ingredients specified in the List of Extremely Hazardous Substances.

**CERCLA listed substances are:**

none



**Other Federal Reporting Requirements:**

**CAA:** This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act  
**CWA:** No chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.  
**RCRA:** Not considered a hazardous waste.

**State Reporting Requirements:**

**State Right to Know Laws:**

CAS#	State RTK	Chemical Name
	NJ	Tetrasodium Pyrophosphate

**CALIFORNIA PROPOSITION 65:**

This product does NOT contain any chemicals which require warning under California Proposition 65.

**Michigan Critical Materials:**

This product does NOT contain ingredients listed on the Michigan Critical Materials Register.

**Global Lists/International Inventories:**

**Canada CEPA:** All intentional ingredients are listed on the DSL.  
**Canada WHMIS:** Not controlled Material causing other toxic effects. Class D-2A

**SECTION 16 - Other Information**

**Medical Conditions Possibly Aggravated By Exposure:**

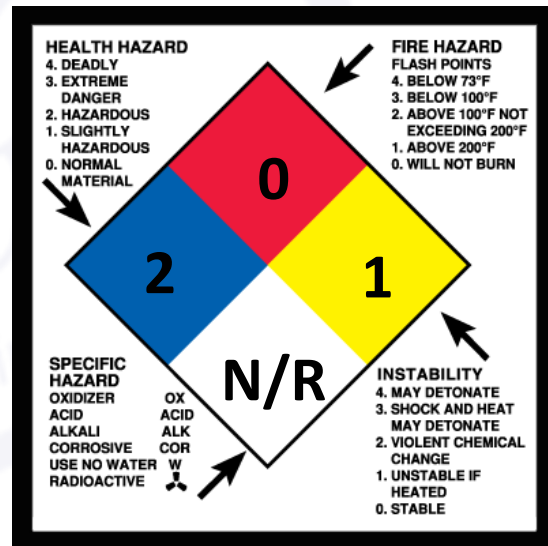
Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

**Notes to Physician:**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

5-15-17 SDS reviewed - updated to GHS requirements. This replaces all previous MSDS's -



**Date of last revision:**

5-15-2017

**Tetrasodium Pyrophosphate, Tech. Grade**  
**SAFETY DATA SHEET**

LidoChem, Inc.

Page: 8 of 8

NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Material Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Material Safety Data Sheet available to your employees.

**Key Legend Information:**

N/Ap:	Not Applicable	ND:	Not Determined
N/R:	Not Rated	NDA:	No Data Available
ACGI	American Conference of Govr'ntal Industrial Hygienists	TLV:	Threshold Limit Value
OSHA:	Occupational Safety and Health Administration	TWA:	Time Weighted Average
PEL:	Permissible Exposure Limit	NTP:	National Toxicology Program
STEL:	Short Term Exposure Limit	TSCA:	Toxic Substance Control Act
IARC:	International Agency for Research on Cancer	CERCLA:	Comprehensive Response, Compensation and Liability Act
SARA Title III:	Superfund Amendments and Reauthorization Act	CWA:	Clean Water Act
CAA:	Clean Air Act		
RCRA:	Resource Conservation Recovery Act		
IATA:	International Air Transport Association Shipping Info.	IMO:	International Maritime Organization Shipping Info.
DSL:	Domestic Substance List (Canada)	WHMIS:	Workplace Hazardous Materials Information System

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