



# Tripotassium Phosphate, Food Grade

## SAFETY DATA SHEET

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SDS#: 543

Review/Revision Date: 05/15/17

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

Trade Name: **Tripotassium Phosphate, Food Grade**

CAS #: **7778-53-2**

Chemical Name: **Tripotassium Phosphate, Potassium Phosphate Tribasic**

Product Code:  
**TKPFLIA**

Application/Uses/ **Food additive for emulsifying, foaming and whipping other ingredients**

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)

STOT - Single Exposure - Cat 3,  
Skin Corrosion/Irritation - Cat 2,  
Serious Eye Damage, Eye Irritation - Cat 2A

#### Physical Hazards

May be corrosive to metals

#### Hazard Statement

H315: Causes skin irritation

H318: Causes serious eye damage

H335: May cause respiratory irritation

#### OSHA Defined Hazards

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

#### HNOC - Hazards Not Otherwise Classified

No other hazards classified



Irritant

Signal Word

Warning

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

P260: Do not breathe dust/fume/gas/mist/vapours/spray  
P264: Wash skin thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection  
P311: Call a POISON CENTER or doctor/physician

P302+352: IF ON SKIN: Wash with soap and P362: Take off contaminated clothing and wash before reuse

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

P332+313: If skin irritation occurs: Get medical advice/attention

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P390: Absorb spillage to prevent material damage.

P501: Dispose of contents/container to in an approved waste disposal plant in accordance with federal, state, and local requirements.

### SECTION 3 Composition/information On Ingredients

Molecular Weight: **212.27**

Chemical FORMULA: **K<sub>3</sub>PO<sub>4</sub>**

CAS#:	Common Name/Synonyms:	% by Wt.
<b>7778-53-2</b>	<b>Phosphoric acid, tripotassium salt</b>	<b>100%</b>

## SECTION 4 - First Aid Information

### Description of first aid measures

#### General Advice:

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

#### If Inhaled:

Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardiopulmonary resuscitation). Seek immediate 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 victim is wearing contact lenses, remove them. 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 be used at this time. Get medical attention.

#### If Swallowed:

If victim is conscious and alert, give 2-3 glasses of water to dilute stomach to drink. 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. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, rinse mouth and give water to further dilute the chemical.

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

May cause irritation to eyes, nose and throat. Large doses may cause nausea, vomiting and diarrhea. Systemic oral toxicity is extremely rare and has consisted of acidosis and hypocalcemia tetany.

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

Treat symptomatically. No additional information.

## SECTION 5 - Fire And Explosion Data

### Suitable Extinguishing Media:

All methods necessary to fight surrounding fire. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Unsuitable Extinguishing Media:

None specified

### Specific Hazards arising from the chemical:

Oxides of phosphorus, Potassium oxides

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

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

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing.

### Fire-fighting equipment/instructions

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

### Specific Methods

Standard procedure for chemical fires.

**Section 6 - Accidental Release Measures****Personal precautions, protective equipment and emergency procedures:**

Do not touch or walk through spilled material. Keep Unauthorized personnel away. Avoid breathing vapors, mist or gas. After wearing and using recommended protective equipment, stop source of spill if safe to do so and dike area to contain spill. See Section 8 for personal protective equipment.

**Environmental Precautions:**

Prevent material from entering public sewer system or any waterways. Large spills should be handled according to a predetermined plan. 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:**

Sweep or vacuum up and place in an appropriate closed container. Runoff from fire control or dilution water may cause pollution. Be careful not to create dust. Use clean non-sparking tools and equipment. Return sweeping to stock or, if contaminated, place into a chemical waste container for disposal. Clean up residual material by washing area with water.

**Section 7- Handling and Storage****Precautions for safe handling:**

Avoid direct or prolonged contact with skin and eyes. Keep containers closed when not being used. This product is hygroscopic and tends to cake in storage. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

**Conditions for safe storage:**

Store in an area that is cool, dry and isolated from all toxic and harmful substances. Store in a well-ventilated place. Keep container tightly closed. Long term storage may cause hardening. Provide appropriate exhaust ventilation at places where dust is formed. Storage class (TRGS 510): Non Combustible Solids

**Incompatibilities:**

This material is incompatible with oxidizing agents.

**Section 8 - Exposure Control and Personal Protection****Occupational Exposure Limits:**

Chemical Identity:	CAS #:	Exposure Limit Values		SOURCE	OSHA/PPM
		TWA	STEL		PEL
Phosphoric acid, tripotassium salt	7778-53-2			ACGIH Threshold Limit Values	None
				ACGIH Threshold Limit Values	
				ACGIH Threshold Limit Values	

**Exposure Limits and Appropriate Engineering Controls:**

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components. The exposure limits given are for Particulates Not Otherwise Classified (PNOC):

ACGH TLV/TWA PARTICULATES NOT OTHERWISE CLASSIFIED : 15 mg/m<sup>3</sup> total dust (INHALABLES)

**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. It is generally regarded as good practice to 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). Consideration 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**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved by NIOSH/MSHA in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 S

**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:** White granular, odorless

**pH:** 11.5 - 12.5%

**Melting Point:** No data available

**Freezing Point:** No data available

**Boiling Point:** No data available

**Flash Point:** Non flammable

**Evaporation Rate:** No data available

**Solubilities:** Freely soluble in water.

**Specific Gravity:** (H<sub>2</sub>O=1) 2.564 Density

**Bulk Density:** 600 - 1000 g/l

**Other Information:**

**Flammable Limits:** Non flammable

**UEL:** No data available

**LEL:** No data available

**Vapor Pressure(mm/hg):** Non volatile

**Vapor Density(air=1):** Non volatile

**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:**

Stable under the recommended storage and handling conditions

**Possible Hazardous Reactions:**

No data available

**Conditions to Avoid:**

Heat, generation of dust. Exposure to moisture.

**Incompatible Materials:**

This material is incompatible with oxidizing agents.

**Hazardous Decomposition Products:**

No data available

## 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:**

LD50 Dermal - Rabbit - > 4,640 mg/kg

Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis.

**Dermal Toxicity:**

No test data found for product.

**Eye Effects:**

No test data found for product.

**Ingestion Effects:**

LD50 Oral - Rat - 4,500 mg/kg

**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 data found for product.

**Neurotoxicity:**

No data found for product.

**Target Organs:**

No data found for product.

**Additional Toxicological Information:**

No data found for product.

## Section 12- Ecological Information

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

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

**Bioaccumulative potential:** No data found for product.

**Mobility in the Soil:** No data found for product.

**Additional Adverse effect on environment:**

Toxicity to fish LC50 - *Gambusia affinis* (Mosquito fish) - 750 mg/l - 96 h

**SECTION 13 - Disposal Considerations**

**Disposal Instructions and Regulations:**

Chemical additions, processing or otherwise altering this material may make the waste management information presented incomplete, inaccurate or otherwise inappropriate. Please be advised that state/local requirements for waste disposal may be more restrictive or otherwise different from federal laws/regulations. Consult state/local regulations regarding proper disposal of 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:** Tripotassium Phosphate

**D. O. T. Hazard Class:** None

**UN #:** None

**Label Requirement:** None

**RQ:** N/Ap

**Placard:** None

**CAS:** 7778-53-2

**Packing Group:** N/A

**ERG Book Information:** 154

**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



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**Other Federal Reporting Requirements:**

CAA: None  
CWA: No chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.  
RCRA: Not considered a hazardous material.

**State Reporting Requirements:**

**State Right to Know Laws:**

CAS#	State RTK	Chemical Name
7778-53-2	PA	Tripotassium Phosphate

**CALIFORNIA PROPOSITION 65:**

This product does NOT contain a chemical or chemicals subject to California Proposition 65.

**Michigan Critical Materials:**

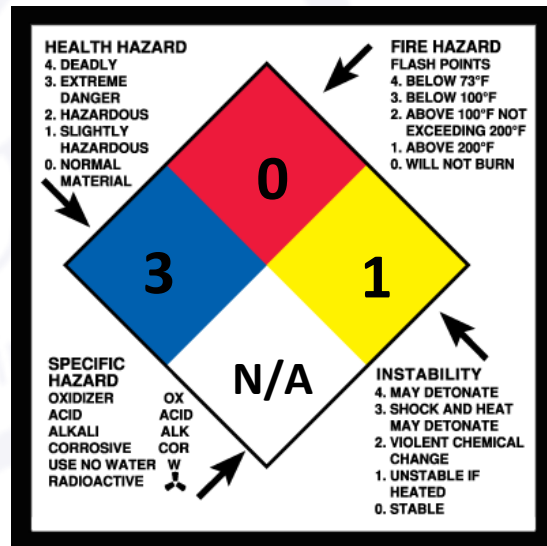
This product does not contain ingredients listed on the Michigan Critical Materials Register.

**Global Lists/International Inventories:**

Canada CEPA: All intentional ingredients are listed on the DSL.  
Canada WHMIS: Not controlled.

**SECTION 16 - Other Information**

5-28-15 SDS reviewed - updated to GHS requirements. This replaces all previous MSDS's -  
5-15-17 - reviewed, no changes.



**Date of last revision:**

5/15/2017

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LidoChem, Inc.

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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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