

## SECTION 1. PRODUCT IDENTIFICATION

### 1.1 TRADE NAME (AS LABELED):

Tetrapotassium Pyrophosphate 60% Solution

#### SYNONYMS:

Tetrapotassium Phosphate Solution

#### CAS#:

Mixture

#### EC NUMBER:

Mixture

### 1.2 PRODUCT USE:

Refer to Section 7.3

### 1.3 MANUFACTURER'S NAME:

**Innophos.**

#### ADDRESS:

259 Prospect Plains Rd, Building A, Cranbury, NJ 08512

#### BUSINESS PHONE:

609-495-2495.

#### WEB SITE INFORMATION:

www.innophos.com

### 1.4 EMERGENCY PHONE NUMBERS:

800-424-9300 (CHEMTREC U.S. and Canada – 24 Hrs)

+1 703-527-3887 (CHEMTREC outside the USA and Canada – 24 Hrs)

615-386-7816 – Innophos Emergency Communication Team (ECT)

#### DATE OF PRIOR REVISION:

February 8, 2016

#### DATE OF LATEST REVISION:

April 05, 2020

## SECTION 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is a clear liquid with no odor.

**Health Hazards:** May cause serious eye irritation. May cause skin irritation.

**Flammability Hazards:** This product is not flammable.

**Reactivity Hazards:** None

**Environmental Hazards:** The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

### 2.1 EU LABELING AND CLASSIFICATION:

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 and regulation EC 1272/2008 (CLP) and 1907/2006 (REACH).

#### Index Number:

EC# 230-785-7 is not listed in Annex VI

Substances not listed either individually or in group entries must be self-classified.

#### Component(s) Contributing to Classification(s)

Tetrapotassium Pyrophosphate

### 2.2 LABEL ELEMENTS

US DOT SYMBOLS

CANADA (WHMIS) SYMBOL(S)

EUROPEAN and (GHS) Hazard Symbol(s)



Complies with WHMIS 2015



Signal Word: **Warning!**

#### GHS Hazard Classification(s):

Skin Irritation Category 2

Eye Irritation Category 2A

#### Hazard Statement(s):

H315: Causes skin irritation

H319: Causes serious eye irritation

#### Prevention Statement(s):

P264: Wash thoroughly after handling

P280: Use protective gloves/protective clothing/eye protection/face protection.

**Response Statement(s):**

P302 + P352: IF ON SKIN: Wash with plenty of water. Manufacturer / Supplier or the competent authority may specific a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.

P321: Specific treatment (see supplemental first aid instructions on this label)

P332+P313: If skin irritation occurs: Get medical advice / attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

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

P337+P313: If eye irritation persists: Get medical advice / attention.

**Storage Statement(s):**

None applicable

**Disposal Statement(s):**

None applicable

**2.3 OTHER HAZARDS:**

None Applicable

## SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	Hazard Classification
Tetrapotassium Pyrophosphate	50-70%	7320-34-5	230-785-7	Skin Irritation Cat 2, Eye Irritation Cat 2A

## 4. FIRST-AID MEASURES

**4.1 DESCRIPTION OF FIRST AID MEASURES:**

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.

**SKIN CONTACT:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing skin, respiratory system or eye problems may be aggravated.

**4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:**

Exposure to skin and eyes may cause immediate or delayed irritation. Respiratory irritation may be caused from inhalation. Ingestion may cause nausea, vomiting, and diarrhea.

**4.3 RECOMMENDATIONS TO PHYSICIANS:**

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.

## SECTION 5. FIRE-FIGHTING MEASURES

**5.1 FIRE EXTINGUISHING MATERIALS:**

Use fire extinguishing methods below:

<u>Water Spray:</u> Yes	<u>Carbon Dioxide:</u> Yes
<u>Foam:</u> Yes	<u>Dry Chemical:</u> Yes
<u>Halon:</u> Yes	<u>Other:</u> Any "C" Class

**5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None anticipated

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No

### 5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Individuals responding to incident should be trained. Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

### 6.2 ENVIRONMENTAL PRECAUTIONS:

Construct a dike to prevent spreading of dilution water. If possible, prevent entry to sewers, storm drains, surface waters, and soils.

### 6.3 SPILL AND LEAK RESPONSE:

**Small spills:** Sweep or vacuum up and place in an appropriate closed container. Avoid creation of dusty conditions. Clean up residual material by washing area with water and detergent.

**Large spills:** Cover powder spill with plastic sheet or tarp to minimize spreading. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

## SECTION 7. HANDLING and STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Handle in a well-ventilated work area.

### 7.2 STORAGE AND HANDLING PRACTICES:

Keep away from incompatible materials. Keep in a dry, well-ventilated area in closed containers. Protect containers from physical damage.

### 7.3 SPECIFIC USES:

Excellent sequestrant for iron in food products. Excellent protein modifier for meat. Recommended for use in low sodium meats; Highly soluble in aqueous solutions. Excellent deflocculating/dispersion properties.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA	EH40 TWA
Tetrapotassium Pyrophosphate	7320-34-5	Not Listed	Not Listed	Not Listed

### 8.2 EXPOSURE CONTROLS:

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Safety glasses or goggles are required. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**HAND PROTECTION:** Gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

**BODY PROTECTION:** Use body protect appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

## SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE (Physical State) and COLOR:** This product is a clear liquid

**ODOR:** None

**ODOR THRESHOLD:** Not Available

**pH:** 10

**MELTING/FREEZING POINT:** -70°C (-94°F)

**BOILING POINT:** Not Available

**FLASH POINT:** Not available

**EVAPORATION RATE (n-BuAc=1):** Not Available

**FLAMMABILITY (SOLID, GAS):** Not Applicable

**UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS:** Not Available

**VAPOR PRESSURE (mm Hg @ 20°C (68°F):** 0.1 mmHg

**VAPOR DENSITY:** Not Available

**RELATIVE DENSITY:** Not Available

**SPECIFIC GRAVITY:** 1.74

**SOLUBILITY IN WATER:** Soluble

**WEIGHT PER GALLON:** Not Available

**PARTITION COEFFICIENT (n-octanol/water):** Not Available

**AUTO-IGNITION TEMPERATURE:** Not Available

**DECOMPOSITION TEMPERATURE:** Not Available

**VISCOSITY:** Not Available

### 9.2 OTHER INFORMATION:

No additional information available at this time.

## SECTION 10. STABILITY and REACTIVITY

### 10.1 REACTIVITY:

No dangerous reactions under conditions of normal storage and use.

### 10.2 STABILITY:

Stable under conditions of normal storage and use.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

### 10.4 CONDITIONS TO AVOID:

Contact with incompatible materials and heat.

### 10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Strong acids.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Phosphoric acid. Oxides of phosphorus. Oxides of potassium.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

#### **TOXICITY DATA:**

Tetrapotassium Pyrophosphate 60% CAS# 7320-34-5

Oral LD50	2,444 mg/kg	Rat
Dermal LC50	>4,640 mg/m <sup>3</sup>	Rabbit

Acute toxicity	Based on available data, the classification criteria are not met
Skin corrosion / irritation	Skin Irritation Category 2
Serious eye damage / irritation	Eye Irritation Category 2A
Respiratory or skin sensitization	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met

**SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of overexposure for this product are by contact with the skin or eyes. The symptoms of overexposure are described in the following paragraphs.

**ACUTE:**

**INHALATION:** Inhalation may cause upper respiratory tract irritation.

**CONTACT WITH SKIN:** Exposure to skin may cause redness or irritation.

**EYE CONTACT:** Can cause serious eye irritation. May cause redness.

**INGESTION:** Ingestion may cause burns to the mouth, nausea, vomiting, and diarrhea.

**CHRONIC:** No data available

**TARGET ORGANS: Acute:** Skin, Eyes

**Chronic:** No data available

**SUSPECTED CANCER AGENT:** Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

**IRRITANCY OF PRODUCT:** This product may be irritating to skin and eyes.

**SENSITIZATION TO THE PRODUCT:** No information available for this product

**REPRODUCTIVE TOXICITY INFORMATION:** No specific information is available concerning the effects of this product and its components on the human reproductive system.

**SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Eye and skin irritation.

**SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** None.

**ASPIRATION HAZARD:** None

## SECTION 12. ECOLOGICAL INFORMATION

**12.1 TOXICITY:**

No specific data available on this product.

**12.2 PERSISTENCE AND DEGRADABILITY:**

No specific data available on this product.

**12.3 BIOACCUMULATIVE POTENTIAL:**

No specific data available on this product.

**12.4 MOBILITY IN SOIL:**

No specific data available on this product.

**12.5 RESULTS OF PBT AND vPvB ASSESSMENT:**

No specific data available on this product.

**12.6 OTHER ADVERSE EFFECTS:**

No specific data available on this product.

**12.7 WATER ENDANGERMENT CLASS:**

May be water endangering in accordance with EU Guideline 91/155-EWG. Do not allow product to reach ground water, water course or sewage system. At present there are no ecotoxicological assessments for this product.

## SECTION 13. DISPOSAL CONSIDERATIONS

**13.1 WASTE TREATMENT METHODS:**

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

**13.2 EU WASTE CODE:**

Not determined.

## SECTION 14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

**14.1 U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:** This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

**UN IDENTIFICATION NUMBER:** UN3266  
**PROPER SHIPPING NAME:** Corrosive Liquid, Basic, Inorganic, N.O.S (Tetrapotassium pyrophosphate)  
**HAZARD CLASS NUMBER and DESCRIPTION:** Class 8 Corrosive Liquid  
**PACKING GROUP:** III  
**DOT LABEL(S) REQUIRED:** Corrosive Liquid  
**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:** 154  
**RQ QUANTITY:** None

**MARINE POLLUTANT:** The components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

**INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA):** This product is considered as dangerous goods.

**INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO):** This product is considered as dangerous goods.

**EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):** This product is considered by the United Nations Economic Commission for Europe to be dangerous goods.

## SECTION 15. REGULATORY INFORMATION

### **15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE:**

#### **UNITED STATES REGULATIONS:**

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows: None

**U.S. SARA 311/312:** Acute Health Hazard

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**OTHER U.S. FEDERAL REGULATIONS:** None known

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** CAS 7320-34-5 is not listed on the Proposition 65 lists.

#### **15.2 CANADIAN REGULATIONS:**

**CANADIAN DSL/NDSL INVENTORY STATUS:** Components are DSL Listed, NDSL Listed and/or are exempt from listing

**OTHER CANADIAN REGULATIONS:** Not applicable.

#### **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** This product is classified per 2015 WHMIS Controlled Product Regulations.

### **15.3 EUROPEAN ECONOMIC COMMUNITY INFORMATION:**

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

See Section 2 for Details

#### **CHEMICAL SAFETY ASSESSMENT:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**15.4 AUSTRALIAN INFORMATION FOR PRODUCT:** Components of this product are listed on the International Chemical Inventory list.

**15.5 JAPANESE INFORMATION FOR PRODUCT:**

**JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:** The components of this product are listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

**15.6 INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:

- Asia-Pac: Listed
- Australian Inventory of Chemical Substances (AICS): Listed
- Korean Existing Chemicals List (ECL): Listed
- Japanese Existing National Inventory of Chemical Substances (ENCS): Listed
- Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed
- Swiss Giftliste List of Toxic Substances: Listed
- U.S. TSCA: Listed

**SECTION 16. OTHER INFORMATION**

<p><b>HMIS Rating (Scale 0-4)</b>          Health hazard: 1          Flammability: 0          Physical Hazard: 0</p>	<p><b>NFPA Rating (Scale 0-4)</b>          Health hazard: 1          Flammability: 0          Physical Hazard: 0</p>
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**Abbreviations and acronyms**

<b>ACGIH</b>	<i>American Conference of Governmental Industrial Hygienists</i>
<b>CFR</b>	<i>Code of Federal Regulations</i>
<b>DOT</b>	<i>Federal Department of Transportation</i>
<b>GHS</b>	<i>The Globally Harmonized System of Classification and Labelling of Chemicals</i>
<b>HMIS</b>	<i>Hazardous Material Identification System</i>
<b>HCS</b>	<i>Hazard Communication Standard</i>
<b>IARC</b>	<i>International Agency for Research on Cancer</i>
<b>IATA</b>	<i>The International Air Transport Association</i>
<b>ICAO</b>	<i>The International Civil Aviation Organization</i>
<b>IMDG</b>	<i>International Maritime Dangerous Goods</i>
<b>IMO</b>	<i>International Maritime Organization</i>
<b>LD50/LC50</b>	<i>Lethal Concentration/Dose, 50 percent</i>
<b>NFPA</b>	<i>National Fire Protection Association</i>
<b>NIOSH</b>	<i>National Institute for Occupational Safety and Health</i>
<b>NTP</b>	<i>National Toxicology Program</i>
<b>OSHA</b>	<i>Occupational Safety and Health</i>
<b>PEL</b>	<i>Permissible Exposure Limit</i>
<b>SARA</b>	<i>Superfund Amendments and Reauthorization Act</i>
<b>TLV</b>	<i>ACGIH Threshold Limit Value</i>
<b>TWA</b>	<i>Time-Weighted Average</i>

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Innophos assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Innophos assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

**END OF SDS SHEET**