



## (Material) Safety Data Sheet

### Tetrapotassium Pyrophosphate

#### Section 1 - Product and Company Identification

<b>Material Name</b>	• Tetrapotassium Pyrophosphate
<b>CAS Number</b>	• 7320-34-5
<b>EINECS</b>	• 230-785-7
<b>Molecular Formula</b>	• K <sub>4</sub> P <sub>2</sub> O <sub>7</sub>
<b>Molecular Weight</b>	• 330.4
<b>Product Description</b>	• White crystalline solid with no odor.
<b>Synonyms</b>	• Pyrophosphoric Acid, Tetrapotassium Salt; Rhodia Phos TKPP; TKPP
<b>Manufacturer</b>	• Innophos PO Box 8000 259 Prospect Plains Road Cranbury, NJ 08512-8000 United States
<b>Telephone</b>	
<b>Technical</b>	• 609-495-2495
<b><u>Emergency</u></b>	• 800-424-9300
<b><u>Emergency</u></b>	• 615-386-7816
<b><u>Emergency</u></b>	• 703-527-3887

Last Revision Date

#### Section 2 - Hazards Identification

##### Emergency Overview

##### WARNING

Causes skin irritation. Causes serious eye irritation. Harmful if swallowed.

**Prevention** Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection.

**Response** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If skin irritation occurs: Get medical advice/attention. Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Storage/Disposal** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



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**OSHA  
WHMIS**

- Irritant
- Class D - Poisonous and Infectious Materials - Division 2 - Subdivision B



**EU**

- Irritant - Xi  
R36/38



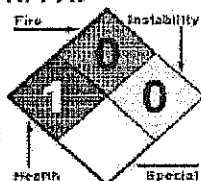
**GHS**

- Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2A, Acute Toxicity - Category 4

**Route Of Entry  
Medical Conditions  
Aggravated by Exposure**

- Inhalation, Skin, Eye, Ingestion/Oral
- Disorders of the lungs, Skin/Dermal,

**NFPA:**



**Potential Health Effects**

**Inhalation**

**Acute (Immediate)**  
**Chronic (Delayed)**

- Exposure to dust may cause irritation.
- No data available.

**Skin**

**Acute (Immediate)**  
**Chronic (Delayed)**

- May cause irritation. Irritation is likely to be more severe if the skin is moist or wet.
- No data available.

**Eye**

**Acute (Immediate)**  
**Chronic (Delayed)**

- May cause irritation.
- No data available.

**Ingestion**

**Acute (Immediate)**  
**Chronic (Delayed)**

- Low acute oral toxicity. May cause burns to mouth and esophagus, nausea, vomiting, diarrhea.
- No data available.

**Carcinogenic Effects**

- This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

*See Section 12 for Ecological Information.*

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### Section 3 - Composition/Information on Ingredients

Hazardous Components						
Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Diphosphoric acid, potassium salt (1:4)	7320-34-5	>= 95%	230-785-7	Skin-Rabbit LD50: >4640 mg/kg	NDA	NDA

Under United States Regulations (29 CFR 1900.1200 - Hazard Communication Standard), this product is considered hazardous. In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS). This product is considered dangerous according to the European Directive 67/548/EEC. According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered hazardous.

See Section 11 for Toxicological Information.

### Section 4 - First Aid Measures

- Inhalation**
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.
- Skin**
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
- Eye**
- Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses if worn. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Rinse mouth. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.
- 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. Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhea and probable abdominal cramps. Larger doses such as 4 -8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the feces with the diarrhea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity. Treatment should take into consideration both anionic and cation portion of the molecule.
- Other Information**
- Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

See Section 2 for Potential Health Effects.

### Section 5 - Fire Fighting Measures

- Extinguishing Media**
- Not combustible. Use extinguishing media suitable for surrounding fire.
- Unsuitable Extinguishing Media**
- None known.
- Firefighting Procedures**
- Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.
- Unusual Fire and Explosion Hazards**
- Non-combustible.
- Hazardous Combustion Products**
- Oxides of phosphorus, oxides of potassium.
- Protection of Firefighters**
- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

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### Section 6 - Accidental Release Measures


- |                                      |  |
|--------------------------------------|--|
| <b>Personal Precautions</b>          | ▪ Do not touch or walk through spilled material.   |
| <b>Emergency Procedures</b>          | ▪ Keep unauthorized personnel away.  |
| <b>Environmental Precautions</b>     | ▪ Affected area should be scraped clean and placed in an appropriate container for disposal.   |
| <b>Containment/Clean-up Measures</b> | ▪ Sweep or vacuum up and place in an appropriate closed container. Avoid generating dust. Clean up residual material by washing area with water and detergent. Collect washings for disposal. Decontaminate tools and equipment following cleanup. |
| <b>Prohibited Materials</b>          | ▪ None known.  |

### Section 7 - Handling and Storage

- |   |   |
|---|---|
| <b>Handling</b>                                   | ▪ Avoid direct or prolonged contact with skin and eyes. Avoid breathing dust. Do not ingest.        |
| <b>Storage</b>                                    | ▪ Store in a tightly closed container. Store in a cool/low-temperature, well-ventilated, dry place. |
| <b>Special Packaging Materials</b>                | ▪ None known.   |
| <b>Incompatible Materials or Ignition Sources</b> | ▪ Strong acids.   |

### Section 8 - Exposure Controls/Personal Protection

#### Personal Protective Equipment

- |  |   |
|--|---|
| <b>Pictograms</b>                                | ▪   |
| <b>Respiratory</b>                               | ▪ 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. |
| <b>Eye/Face</b>                                  | ▪ Wear safety glasses.  |
| <b>Hands</b>                                     | ▪ Wear appropriate gloves.  |
| <b>General Industrial Hygiene Considerations</b> | ▪ 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.  |
| <b>Engineering Measures/Controls</b>             | ▪ Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.  |

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Exposure Limits/Guidelines						
	Result	ACGIH	Argentina	Canada Ontario	Canada Quebec	China
Tetrapotassium Pyrophosphate	STELs	Not established	Not established	Not established	Not established	16 mg/m <sup>3</sup> STEL (free SiO <sub>2</sub> <10%, except asbestos and toxic substances. Use PC-STEL of silica When free SiO <sub>2</sub> >10%, total)  <i>as Particulates not otherwise classified (PNOC)</i>
	TWAs	10 mg/m <sup>3</sup> TWA (inhalable particles, recommended); 3 mg/m <sup>3</sup> TWA (respirable particles, recommended)  <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m <sup>3</sup> TWA (inhalable fraction, particulate matter containing no asbestos and less than 1% crystalline silica); 3 mg/m <sup>3</sup> TWA (respirable fraction, particulate matter containing no asbestos and less than 1% crystalline silica)  <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m <sup>3</sup> TWAEV (inhalable particulate); 3 mg/m <sup>3</sup> TWAEV (respirable particulate)  <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m <sup>3</sup> TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)  <i>as Particulates not otherwise classified (PNOC)</i>	8 mg/m <sup>3</sup> TWA (free SiO <sub>2</sub> <10%, except asbestos and toxic substances. Use PC-TWA of silica When free SiO <sub>2</sub> >10%, total)  <i>as Particulates not otherwise classified (PNOC)</i>

Exposure Limits/Guidelines (Con't.)					
	Result	Malaysia	New Zealand	OSHA	Singapore
Tetrapotassium Pyrophosphate	TWAs	10 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, inhalable fraction); 3 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)  <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m <sup>3</sup> TWA (inhalable dust); 3 mg/m <sup>3</sup> TWA (respirable dust)  <i>as Particulates not otherwise classified (PNOC)</i>	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)  <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m <sup>3</sup> PEL  <i>as Particulates not otherwise classified (PNOC)</i>

**Key to abbreviations**

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

TWAEV = Time-Weighted Average Exposure Value

ACGIH = American Conference of Governmental Industrial Hygiene

OSHA = Occupational Safety and Health Administration

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- Persistence/Degradability**      • 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.
- Bioaccumulation Potential**      • No data found for product.
- Mobility in Soil**                      • No data found for product.

**Section 13 - Disposal Considerations**

- Product**                                      • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transportation Information**

**DOT - United States - Department of Transportation**  
 Shipping Name: Not Regulated

**TDG - Canada - Transport of Dangerous Goods**  
 Shipping Name: Not Regulated

**IMO/IMDG -International Maritime Transport**  
 Shipping Name: Not Regulated

**ADN - Europe Transport of Dangerous Goods by Road/Inland Waterway**  
 Shipping Name: Not Regulated

**IATA - International Air Transport Association**  
 Shipping Name: Not Regulated

**ADR - Europe Transport of Dangerous Goods by Road/Inland Waterway**  
 Shipping Name: Not Regulated

**RID - Europe Transport of Dangerous Goods by Railways**  
 Shipping Name: Not Regulated

**Section 15 - Regulatory Information**

- SARA Hazard Classifications**      • Acute
- Risk & Safety Phrases**              • R36/38 Irritating to eyes and skin.  
     R22 Harmful if swallowed.  
     S24/25 Avoid contact with skin and eyes.  
     S22 Do not breathe dust.

Inventory						
Component	CAS	Australia AICS	Canada DSL	Canada NDSL	China	EU EINECS
Diphosphoric acid, potassium salt (1:4)	7320-34-5	Yes	Yes	No	Yes	Yes

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Product #: 8702 Name: TETRAPOTASSIUM PYROPHOSPHATE Desc: TECH GRAN 563 (INNOPHOS)

From: BRENNTAG PACIFIC INC. To: AQUA SYSTEMS Tuesday, March 25, 2014

Inventory (Con't.)						
Component	CAS	EU ELNICS	Japan ENCS	Korea KECL	New Zealand	Philippines PICCS
Diphosphoric acid, potassium salt (1:4)	7320-34-5	No	Yes	Yes	Yes	Yes

Inventory (Con't.)			
Component	CAS	Switzerland SWISS	TSCA
Diphosphoric acid, potassium salt (1:4)	7320-34-5	No	Yes

**Australia**

**Environment**

**Australia - National Pollutant Inventory (NPI) Substance List**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Australia - Priority Existing Chemical Program**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Other**

**The Australia Group - Export Control List - Chemical Weapons Precursors**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Canada**

**Labor**

**Canada - List of Prohibited and Restricted Cosmetic Ingredients (The Cosmetic Ingredient Hotlist)**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Canada - WHMIS - Classifications of Substances**

- Tetrapotassium Pyrophosphate 7320-34-5 D2B
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% D2B

**Canada - WHMIS - Ingredient Disclosure List**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Environment**

**Canada - CEPA - Priority Substances List**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

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## China

### Other

#### China - Annex I & II - Controlled Chemicals Lists

- |  |                  |            |
|--|------------------|------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5        | Not Listed |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |                  | Not Listed |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 >= 95% | Not Listed |

#### China - Dangerous Goods List

- |  |                  |            |
|--|------------------|------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5        | Not Listed |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |                  | Not Listed |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 >= 95% | Not Listed |

## Croatia

### Environment

#### Croatia - Air Quality - Emission Limits for Stationary Sources

- |  |                  |            |
|--|------------------|------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5        | Not Listed |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |                  | Not Listed |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 >= 95% | Not Listed |

#### Croatia - Air Quality - Limit Values for Gaseous Pollutants

- |  |                  |            |
|--|------------------|------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5        | Not Listed |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |                  | Not Listed |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 >= 95% | Not Listed |

#### Croatia - Air Quality - Recommended Values for Gaseous Pollutants

- |  |                  |            |
|--|------------------|------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5        | Not Listed |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |                  | Not Listed |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 >= 95% | Not Listed |

#### Croatia - Ozone Depleting Substances - Annex A, Group I

- |  |                  |            |
|--|------------------|------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5        | Not Listed |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |                  | Not Listed |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 >= 95% | Not Listed |

## Egypt

### Environment

#### Egypt - Air Pollutants - Emissions Limits - Overall Particles

- |  |                  |            |
|--|------------------|------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5        | Not Listed |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |                  | Not Listed |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 >= 95% | Not Listed |

#### Egypt - Air Pollutants - Maximum Limits

- |  |                  |            |
|--|------------------|------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5        | Not Listed |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |                  | Not Listed |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 >= 95% | Not Listed |

## Europe

### Environment

#### EU - Substances Depleting the Ozone layer (1005/2009) - Annex I Substances

- |  |                  |            |
|--|------------------|------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5        | Not Listed |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |                  | Not Listed |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 >= 95% | Not Listed |

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Product #: 8702 Name: TETRAPOTASSIUM PYROPHOSPHATE Desc: TECH GRAN 563 (INNOPHOS)  
 From: BRENNTAG PACIFIC INC. To: AQUA SYSTEMS Tuesday, March 25, 2014

**EU - Seveso II Directive (96/82/EC) - Qualifying Quantities for Major Accident Notification**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**EU - Seveso II Directive (96/82/EC) - Qualifying Quantities for Safety Report Requirements**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Other**

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**EU - Hazardous Substances Restricted or Prohibited in Electrical Equipment (2002/95/EC) (RoHS)**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**India**

**Environment**

**India - Hazardous Chemical Rules - List of Hazardous and Toxic Chemicals**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**India - Ozone Depleting Substances - Schedule I**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

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**Indonesia**

**Environment**

**Indonesia - Hazardous Waste from Non-Specific Sources**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Indonesia - Hazardous Waste from Specific Sources**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Japan**

**Labor**

**Japan - ISHL Dangerous Substances**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Japan - ISHL Designated Carcinogens**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Japan - ISHL Harmful Substances Prohibited for Manufacture**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Environment**

**Japan - Air Pollution Control Law - Emission Standards for Air Pollutants**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Korea**

**Labor**

**Korea - MOE - Harmful Substances**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Korea - ISHA - Name, Toxicity and Protective Measures of New Chemical Substances**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

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Product #: 8702 Name: TETRAPOTASSIUM PYROPHOSPHATE Desc: TECH GRAN 563 (INNOPHOS)

From: BRENNTAG PACIFIC INC. To: AQUA SYSTEMS Tuesday, March 25, 2014

#### Environment

##### Korea - MOE - Toxic Chemicals Control Act (TCCA) - Observational Chemicals

- |  |           |                   |
|--|-----------|-------------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5 | Not Listed        |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |           | Not Listed        |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 | >= 95% Not Listed |

#### Malaysia

##### Labor

##### Malaysia - Occupational Safety & Health - Risk Phrases

- |  |           |                   |
|--|-----------|-------------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5 | Not Listed        |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |           | Not Listed        |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 | >= 95% Not Listed |

##### Malaysia - Occupational Safety & Health - Safety Phrases

- |  |           |                   |
|--|-----------|-------------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5 | Not Listed        |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |           | Not Listed        |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 | >= 95% Not Listed |

#### Environment

##### Malaysia - Clean Air Regulations - Noxious and Offensive Substances

- |  |           |                   |
|--|-----------|-------------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5 | Not Listed        |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |           | Not Listed        |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 | >= 95% Not Listed |

#### Mexico

##### Environment

##### Mexico - Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities

- |  |           |                   |
|--|-----------|-------------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5 | Not Listed        |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |           | Not Listed        |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 | >= 95% Not Listed |

#### Other

##### Mexico - Hazard Classifications

- |  |           |                   |
|--|-----------|-------------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5 | Not Listed        |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |           | Not Listed        |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 | >= 95% Not Listed |

##### Mexico - Regulated Substances

- |  |           |                   |
|--|-----------|-------------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5 | Not Listed        |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |           | Not Listed        |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 | >= 95% Not Listed |

#### New Zealand

##### Other

##### New Zealand - Ozone Depleting Substances

- |  |           |                   |
|--|-----------|-------------------|
| • Tetrapotassium Pyrophosphate   | 7320-34-5 | Not Listed        |
| • Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) |           | Not Listed        |
| • Diphosphoric acid, potassium salt (1:4)                                      | 7320-34-5 | >= 95% Not Listed |

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**Other Agency Information**

**Other**

**AIHA - Emergency Response Planning Guidelines - ERPG-1 Values**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**AIHA - Emergency Response Planning Guidelines - ERPG-2 Values**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**AIHA - Emergency Response Planning Guidelines - ERPG-3 Values**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Philippines**

**Environment**

**Philippines - Ozone Depleting Substances - Annex A - Group I**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Other**

**Philippines - Priority Chemical List**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Singapore**

**Environment**

**Singapore - Air Impurities Emission Limits**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Singapore - List of Hazardous Substances**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**South Africa**

**Labor**

**South Africa - General Machinery Regulations - Notifiable Substances**

- Tetrapotassium Pyrophosphate 7320-34-5 Not Listed
- Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC) Not Listed
- Diphosphoric acid, potassium salt (1:4) 7320-34-5 >= 95% Not Listed

**Taiwan**

**Environment**

**Taiwan - Toxic Chemical Substances Control Act - Threshold Regulated Quantities**

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 From: BRENNTAG PACIFIC INC. To: AQUA SYSTEMS Tuesday, March 25, 2014

• Tetrapotassium Pyrophosphate	7320-34-5	Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)		Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5 >= 95%	Not Listed
<b>Taiwan - Toxic Chemical Substances Control Act - Classification and Control Levels</b>		
• Tetrapotassium Pyrophosphate	7320-34-5	Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)		Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5 >= 95%	Not Listed

**Thailand**

<b>Labor</b>		
<b>Thailand - Air Contaminant Standards</b>		
• Tetrapotassium Pyrophosphate	7320-34-5	Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)		Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5 >= 95%	Not Listed

<b>Environment</b>		
<b>Thailand - Quantities of Chemicals</b>		
• Tetrapotassium Pyrophosphate	7320-34-5	Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)		Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5 >= 95%	Not Listed

<b>Other</b>		
<b>Thailand - Hazardous Substances</b>		
• Tetrapotassium Pyrophosphate	7320-34-5	Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)		Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5 >= 95%	Not Listed

**United States**

<b>Environment</b>		
<b>U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants</b>		
• Tetrapotassium Pyrophosphate	7320-34-5	Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)		Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5 >= 95%	Not Listed
<b>U.S. - CAA (Clean Air Act) - Class I Ozone Depletors</b>		
• Tetrapotassium Pyrophosphate	7320-34-5	Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)		Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5 >= 95%	Not Listed
<b>U.S. - CAA (Clean Air Act) - Class II Ozone Depletors</b>		
• Tetrapotassium Pyrophosphate	7320-34-5	Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)		Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5 >= 95%	Not Listed
<b>U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities</b>		
• Tetrapotassium Pyrophosphate	7320-34-5	Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)		Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5 >= 95%	Not Listed
<b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs</b>		
• Tetrapotassium Pyrophosphate	7320-34-5	Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)		Not Listed

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• Diphosphoric acid, potassium salt (1:4)	7320-34-5	>= 95%	Not Listed
<b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs</b>			
• Tetrapotassium Pyrophosphate	7320-34-5		Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)			Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5	>= 95%	Not Listed
<b>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</b>			
• Tetrapotassium Pyrophosphate	7320-34-5		Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)			Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5	>= 95%	Not Listed
<b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - List for Hazardous Constituents</b>			
• Tetrapotassium Pyrophosphate	7320-34-5		Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)			Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5	>= 95%	Not Listed
<b>U.S. - SDWA (Safe Drinking Water Act) - CCL (Contaminant Candidate List)</b>			
• Tetrapotassium Pyrophosphate	7320-34-5		Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)			Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5	>= 95%	Not Listed

**Vietnam**

<b>Environment</b>			
<b>Vietnam - Air Quality - Ambient Air Quality Standards</b>			
• Tetrapotassium Pyrophosphate	7320-34-5		Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)			Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5	>= 95%	Not Listed
<b>Vietnam - Air Quality - Industrial Emission Standards</b>			
• Tetrapotassium Pyrophosphate	7320-34-5		Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)			Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5	>= 95%	Not Listed
<b>Vietnam - Air Quality - Maximum Allowable Concentration of Highly Hazardous Chemicals</b>			
• Tetrapotassium Pyrophosphate	7320-34-5		Not Listed
• Tetrapotassium Pyrophosphate as Particulates not otherwise classified (PNOC)			Not Listed
• Diphosphoric acid, potassium salt (1:4)	7320-34-5	>= 95%	Not Listed

**Other Information** • This product meets the compositional requirements of: 21 CFR 182.1 Substances that are generally regarded as safe TETRAPOTASSIUM PYROPHOSPHATE - Fed Reg. 12/18/1979 184.1870 page 74857.

**Section 16 - Other Information**

**Preparation Date**

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**Key to abbreviations**  
 NDA = No Data Available

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