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## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: Potassium  
Tripolyphosphate**

**PO300-00**

### SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

**MANUFACTURER:** Same as above  
**PREPARED BY:** Production Department  
**VERSION DATE:** 01-Aug-16  
**TELEPHONE NO.:** (519) 686-6882  
**EMERGENCY PHONE NO.:** (800) 424-9300  
**CHEMICAL FAMILY:** Not Available      **CHEMICAL FORMULA:** Not Applicable  
**MOLECULAR WEIGHT:** Not Applicable      **MATERIAL USE:** Please Refer to technical literature  
**SYNONYMS:** Potassium Tripolyphosphate

### SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Triphosphoric acid, potassium salt	100	13845-36-8	N.Av.	N.Av.	N.Av.

### SECTION 03: HAZARD IDENTIFICATION

#### ROUTE OF ENTRY

**Eyes:** May cause tearing, redness, irritation.  
**Skin:** May cause irritation, redness.  
**Inhalation:** May cause coughing, lung irritation, upper respiratory tract irritation.  
**Ingestion:** Ingestion of large quantities may cause nausea, vomiting, diarrhea, irritation.

### SECTION 04: FIRSTAID

**Skin Contact:** In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

**Eye Contact:** Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

**Inhalation, Acute:** If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

**Ingestion:** Do not induce vomiting, unless directed to do so by a physician. If victim is conscious and alert, give two to three glasses of water to drink. Seek immediate medical attention. 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. Also see Note To Physician.

**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. The following treatments should be considered for the specific group(s) of phosphate salts found in this product: All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcemia, so calcium levels should be monitored. Ammonium salts have a hypothetical risk of ammonia toxicity. In addition to calcium levels, ammonia and phosphate levels should be monitored. Potassium salts have a hypothetical risk of hyperkalemia which can cause cardiac arrhythmia. In addition to calcium levels, potassium and phosphate levels should be monitored. Also consider continuous EKG monitoring to detect hyperkalemia. Sodium salts have a hypothetical risk of hypernatremia. In addition to calcium levels, sodium and phosphate levels should be monitored.

**SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES**

**FLAMMABLE?** No

**IF YES, UNDER WHICH CONDITIONS?**

**FLASH POINT (TCC) (C):** Not Available

**FLAMMABLE LIMITS:** **LEL(% BY VOL.):** Not Available **UEL(% BY VOL.):** Not Available

**AUTO IGNITION TEMPERATURE (C)** Not Available

**EXTINGUISHING MEDIA** Not combustible. Use extinguishing method suitable for surrounding fire.

**SPECIAL PROCEDURES:** Firefighters 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.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of phosphorus

**UNUSUAL FIRE AND EXPLOSION HAZARDS** Not combustible.

**SENSITIVITY TO STATIC DISCHARGE** Not Available

**SENSITIVITY TO MECHANICAL IMPACT:** Not Available

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

**Leak and Spill Procedure:** Evacuation Procedures and Safety:  
Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Containment of Spill:  
Follow procedure described below under Cleanup and Disposal of Spill.

Cleanup and Disposal of Spill:  
Sweep or vacuum up and place in an appropriate closed container (see Section 7: Handling and Storage). Avoid creation of dusty conditions. Clean up residual material by washing area with water and detergent. Collect washings for disposal. Decontaminate tools and equipment following cleanup.

Environmental and Regulatory Reporting:  
Prevent material from entering public sewer system or any waterways.

**SECTION 07: HANDLING AND STORAGE**

**Handling Procedures and Storage Requirements**

**Handling:**  
Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts. Do not ingest.

**Storage:**  
Store in tightly closed containers. Store in an area that is cool, dry, This product is hygroscopic and tends to cake on storage.

**SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS**

**GLOVES/TYPE:** Impervious chemical resistant gloves.

**RESPIRATOR/TYPE:** When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s): dust/mist filtering respirator.

**EYE/TYPE:** 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.

**OTHER/TYPE:**

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:  
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.  
Wash exposed skin promptly to remove accidental splashes or contact with this material.

**ENGINEERING CONTROL**

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: general area dilution/exhaust ventilation.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL STATE/APPEARANCE:</b>	White Powder Solid		
<b>ODOUR:</b>	Odorless	<b>ODOUR THRESHOLD:</b>	N. Av.
<b>VAPOUR PRESSURE (mm Hg @ 20C):</b>	N. Av.	<b>VAPOUR DENSITY (Air=1):</b>	N. Av.
<b>EVAPORATION RATE (Ether = 1):</b>	N. Av.	<b>SPECIFIC GRAVITY:</b>	1.16 g/ml15C
<b>BOILING POINT (C):</b>	>1500C	<b>FREEZING POINT (C)</b>	
<b>Ph (% SOLUTION):</b>	9to10.1at1wt/wt%	<b>% VOLATILE (WT):</b>	
<b>SOLUBILITY IN WATER (% W/W)</b>	19.3wt/wt%at25C		

**SECTION 10: STABILITY AND REACTIVITY**

**CHEMICALLY STABLE?** Stable

**IF NO, UNDER WHICH CONDITIONS?**

**INCOMPATIBILITY WITH OTHER SUBSTANCES**

**IF YES, WITH WHICH ONES:**

**SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS**

**HAZARDOUS DECOMPOSITION PRODUCTS:**

**SECTION 11: TOXICOLOGICAL INFORMATION**

**EXPOSURE LIMIT OF MATERIAL**

**LC 50 OF MATERIAL, SPECIES AND ROUTE**

**LD 50 OF MATERIAL, SPECIES AND ROUTE**

**CARCINOGENICITY OF MATERIAL**

**REPRODUCTIVE EFFECTS:**

**IRRITANCY OF MATERIAL**

**SENSITIZING CAPABILITY OF MATERIAL**

**SYNERGISTIC MATERIALS**

**SECTION 12: ECOLOGICAL INFORMATION**

**AQUATIC TOXICITY** LC50 - lethal concentration 50% of test species, 100 mg/l/96 hr, Mysidopsis bahia (saltwater mysid).  
EC50 - effective concentration 50% of test species, 100 mg/l/48 hr, Daphnia.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** Waste Management options should first consider possible re-use or recycling opportunities. Some provinces have active "Waste Exchange" networks for re-use and recycling of wastes. Contact your local waste management companies to explore available options. All waste management activities must obey local, provincial and federal regulations. Possible disposal methods include the following:

**SECTION 14: TRANSPORT INFORMATION**

**TDG CLASSIFICATION** Class D, Potassium Tripolyphosphate

**UN NUMBER:**

**PACKING GROUP:** II

**Special Provisions for Transport**

**SECTION 15: REGULATORY INFORMATION**

**WHMIS CLASSIFICATION**

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

**SECTION 16: OTHER INFORMATION**

**ABBREVIATIONS USED:** N.Av. = Not Available  
N.App. / N.Ap. = Not Applicable

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**SOURCES:** Supplier MSDS

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