



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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MATERIAL SAFETY DATA SHEET

C-1101-A

Protection Required



SECTION 1 - MATERIAL IDENTIFICATION AND USE

Manufacturer's Name : PMC Water Systems Services Inc.
Manufacturer's Address : 124 Connie Crescent, Unit 9, Concord, ON L4K 1L7
Manufacturer's Phone # : (905) 669-8262
24 Emergency Phone # : Canutec (613) 996-6666
Product Identifier : C-1101-A
Product Use :

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Tetra Potassium Pyrophosphate	10 – 30%	7320-34-5	244 mg/kg (oral – rat)	Not Available

SECTION 3 – HAZARDS IDENTIFICATION

Potential Acute Health Effects

Eye Contact : Causes redness, tearing and irritation based on toxicity tests of TKPP solution.
Skin Contact : Brief contact is not irritating.
Inhalation : None known
Ingestion : May be slightly toxic.

SECTION 4 – FIRST AID MEASURES

Eye Contact : In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
Skin Contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and laundry before reuse.
Inhalation : Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.
Ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs
Notes to Physician : Treatment based on sound judgment of physician and individual reactions of patient.

SECTION 5 – FIRE FIGHTING MEASURES

Flammability : Non-flammable
Flash Point : Not Available
Autoignition : Not Available
Temperature :
Extinguishing media : Use DRY chemicals, CO₂, alcohol foam or water spray
Special Firefighting : Fire fighters should wear full protective clothing, including self-contained breathing equipment.
Procedures/Equipment :

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective equipment.
Environment Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Consult local authorities.
Spill Response/Cleanup	Isolate hazard area and restrict access. Absorb with an inert dry material and place in an appropriate waste disposal container. Avoid direct contact with material.

SECTION 7 – HANDLING AND STORAGE

Handling	For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment
Storage Requirements	Store in a cool, dry, well ventilated area. Recommended materials of construction for TKPP solutions include polypropylene and stainless steels. Mild steel is not satisfactory, because the solution dissolves rust (oxides of iron) contaminating the solution. Aluminum is also not satisfactory, because it is subject to corrosion, including severe pitting.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	Use only in well ventilated areas. Use local exhaust if mist or spray is generated
Respiratory Protection	If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.
Skin Protection	Appropriate chemical resistant gloves should be worn. Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.
Eye/Face Protection	Chemical goggles; also wear a face shield if splashing hazard exists.
Other Comments	Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Tetrapotassium pyrophosphate	Not available	Not available	Not Available

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Viscous liquid
Odour and Appearance	:	Odourless; Clear
Odour Threshold	:	Not Available
Specific Gravity (Water = 1)	:	1.27
Vapour Pressure (mmHg)	:	Not Available
Vapour Density (Air = 1)	:	Not Available
Evaporation Rate	:	Not Available
Boiling Point	:	Not Available
Freezing Point	:	-50°C, -58°F
pH	:	7-8
Solubility in Water	:	Soluble

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity	Stable under recommended storage and handling conditions prescribed.
Hazardous Decomposition Products	Not Available
Hazardous Polymerization	Not Available
Incompatible Materials	Aluminum

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure

Skin Contact	:	Brief contact is not irritating.
Eye Contact	:	Causes redness, tearing and irritation based on toxicity tests of TKPP solution.
Ingestion	:	May be slightly toxic
Inhalation	:	Not known
Chronic Exposure Effects	:	Following repeated exposure (13-weeks) to this product in their food, kidney damage with changes in body weight, food consumption, clinical parameters and organ weights were reported at high-dose levels in rats.
Irritancy	:	Not Available
Sensitization	:	Not Available
Carcinogenicity	:	No components are listed as carcinogens by IARC and ACGIH.
Teratogenicity	:	Not Available
Mutagenicity	:	Not Available
Reproductive Effects	:	Not Available

SECTION 12 – ECOLOGICAL INFORMATION

General Comments	This material is not expected to produce any significant adverse environmental effects when recommended use instructions are followed. 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.
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SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.
Contaminated Packaging	Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14 – TRANSPORT INFORMATION

Shipping Regulations	Not TDG Regulated
Domestic Substances List	All ingredients are listed on the DSL or are not required to be listed.

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification	Class E: Corrosive Material
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SECTION 16 – OTHER INFORMATION

Prepared by:	Lab Services PMC Water Systems Services Inc. 124 Connie Crescent, Unit 9 Concord Ontario L4K 1L7
Preparation Date:	March 20, 2016

While all the data presented is believed to be accurate at the time of preparation, PMC Water Systems Services Inc. makes no warranty; the data is offered for your consideration, investigation and verification.