



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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SAFETY DATA SHEET PHOSPHORIC ACID

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 : Phosphoric Acid
Product Use : Water Treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Phosphoric Acid	60-100%	7664-38-2	1530mg/kg (oral – rat)	No Data Available

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Statement Causes severe skin burns and eye damage. May be corrosive to metals.
Precautionary Statement Keep only in original container. Do not breathe mist. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a Poison Center or doctor/physician. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Center or doctor/physician. Absorb spillage to prevent material damage. Store in corrosive resistant container with a resistant inner liner. Store locked up. Store in a closed container. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 4 – FIRST AID MEASURES

Eye Contact Immediately flush eyes with lukewarm water for at least 30 minutes, forcibly holding eyelids open. Remove any contact lenses and continue flushing for 15 minutes. Seek medical attention.
Skin Contact In case of skin contact. Remove any contaminated clothing and wash affected area with plenty of soap and water. Get immediately medical attention.
Inhalation Move victim to fresh air. If breathing has stopped, start artificial respiration at once. If breathing is difficult, give oxygen. If symptoms persist, consult a physician.
Ingestion Give large quantities of water. Do not induce vomiting. Do not give anything by mouth to a convulsing person. Get immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability Not flammable
Flash Point Not Applicable
Autoignition Temperature Not Applicable
Extinguishing Media Dry chemical, carbon dioxide (CO₂), chemical type of foam or water fog.
Special Firefighting Procedures/Equipment Evacuate nonessential personnel from fire area. Cool fire exposed containers with water. Firefighters should wear the usual protective gear; self-contained breathing apparatus.

Explosion Data Not Applicable
Hazardous Combustion Products Phosphorus oxides, phosphoric anhydride.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear protective clothing and equipment.
Environment Precautions Avoid discharge to natural waters and sewers.
Spill Response/Cleanup Isolate hazard area and restrict access. Stop leak if without risk. Dike and contain spill with inert material (sand, earth, etc.) and transfer liquid and solid separately to containers for recovery or disposal. Neutralize with lime or soda ash. Sweep or shovel material into waste container. Flush residue with water.

SECTION 7 – HANDLING AND STORAGE

Handling Corrosive material. Avoid contact with eyes, skin and clothing. Do not ingest. Do not inhale vapour or mist. Use appropriate personal protective equipment. Use with adequate ventilation. Handle in accordance with good industrial hygiene and safety practices. Keep containers closed when not in use. Empty product containers may contain residue. Follow label warnings even after container is emptied.
Storage Requirements Keep from freezing. Store away from bases. Store in a cool, dry container away from incompatible materials. Store in original tightly closed container to prevent moisture absorption and/or contamination.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Good general ventilation should be sufficient for most conditions.
Respiratory Protection None required under normal use. If exposed to misting, Use NIOSH approved respirator for acid gases with dust/mist prefilters.
Skin Protection Neoprene, polyvinyl chloride, butyl rubber or natural rubber gloves, impervious footwear, rubber safety boots.
Eye/Face Protection Chemical safety goggles; face shield.
Other Comments An eyewash station and safety shower should be available

Ingredient	Exposure Limit – ACGIH	Exposure Limit – OSHA	Immediately Dangerous to Life or Health - IDLH
Phosphoric Acid	3 mg/m ³ STEL 1 mg/m ³ TWA	3 mg/m ³ STEL 1 mg/m ³ TWA	1000 mg/m ³

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid
Odour and Appearance : Odourless; colourless to slight yellow
Odour Threshold : Not Available
Specific Gravity (Water = 1) : 1.58 at 15°C
Vapour Pressure (mmHg) : 5.7 at 75%
Vapour Density (Air = 1) : Not Available
Evaporation Rate : Not Available
Boiling Point : 135° C, 275° F
Freezing Point : -17.5°C, 0.5°F (melting point)
pH : 1.0
Coefficient Water/Oil Distribution : Not Applicable
Solubility in Water : Complete

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity Stable under normal conditions.
Conditions for Chemical Instability Heat
Incompatible Materials Cyanides. Carbides. Mercaptans. Alkalies. Phosphides. Silicides. Glass. Ferrous metals. Porcelain. Ceramic. Stainless steel. Sulphide. Earth metals
Hazardous Decomposition Products Phosphine; oxides of phosphorus
Hazardous Polymerization Hazardous polymerization does not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Entry	: Eyes, skin, respiratory and digestive system
Skin Contact	: Extremely corrosive. Not absorbed through skin
Eye Contact	: Severe irritant. May cause permanent damage.
Ingestion	: Extremely corrosive to the mouth and throat
Inhalation	: Corrosive to the respiratory system.
Exposure Effects	: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.
Sensitization	: None known
Carcinogenicity	: Not listed as a carcinogen by ACGIH or IARC.
Teratogenicity	: Not Available
Mutagenicity	: Not Available
Reproductive Effects	: Not Available

SECTION 12 – ECOLOGICAL INFORMATION

General Comments May cause adverse environmental impact if material reaches waterways.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Dispose in accordance with federal, provincial or local government requirements. Contact your local, provincial or federal environmental agency for specific regulations.

SECTION 14 – TRANSPORT INFORMATION

TDG Shipping Regulations UN 1805, Phosphoric Acid, Liquid, Solution, Class 8, PG III
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

SECTION 16 – OTHER INFORMATION

Prepared by: Lab Services
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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.