



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

TEL 905 669 8262, FAX 905 669 8252, EMAIL pmcwater@aol.com, www.pmcwatersystems.com

MATERIAL SAFETY DATA SHEET

C-2014 N

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-2014-N
Product Use :

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Citric Acid	2-3%	77-92-9	3 gm/kg, oral - rat	No Data Available
Monoethanolamine	10-20%	141-43-5	1089mg/kg (oral – rat)	>1.48mg/l 4h (vapour – rat)
Phosphoric Acid	1-5%	7664-38-2	1530mg/kg (oral – rat)	No Data Available

SECTION 3 – HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact Causes eye irritation. Signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.
Skin Contact Causes irritation with discomfort, local redness, and possible swelling.
Inhalation May be harmful if inhaled.
Ingestion May be harmful if large amounts are swallowed.

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 person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.
Inhalation 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.
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

Flash Point (C) None – will not burn.
Flash Point Method Not Applicable
Autoignition Temperature (C) Not Applicable
Flammability Limits in Air – Lower (%) Not Applicable
Flammability Limits in Air – Upper (%) Not Applicable
Extinguishing media Use extinguishing media appropriate for surrounding fire.
Special Exposure Hazards Evacuate nonessential personnel from fire area. Cool fire exposed containers with water. Firefighters should wear the usual protective gear; self-contained breathing apparatus.
Special Protective Equipment Fire fighters should wear full protective clothing, plus self-contained breathing equipment.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Clean up Procedure	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. Prevent spilled material from entering sewers, confined spaces, drains, or waterways.
Personal Precautions	Wear appropriate breathing apparatus (if applicable) and protective clothing and equipment.
Environment Precautions	Prevent entry into sewers or streams, dike if needed. Consult local authorities.

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. DO NOT handle or store near an open flame, heat, or ignition sources. DO NOT pressurize, cut, heat, or weld containers. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Launder contaminated clothing prior to reuse. Protect against physical damage. Use appropriate personnel protective equipment. Wash thoroughly after handling.
Storage Requirements	Store in a cool, dry, well-ventilated area, away from heat and ignition sources. Store in accordance with good industrial practices. Place away from incompatible materials.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Local exhaust ventilation as necessary to maintain exposures to within applicable limits.
Respiratory Protection	Not normally needed
Gloves	Rubber gloves; vinyl gloves
Skin Protection	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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Odour and Appearance	:	Sweet; amber
Odour Threshold	:	Not Available
Specific Gravity (Water = 1)	:	1.24
Vapour Pressure (mmHg)	:	Not Available
Vapour Density (Air = 1)	:	Not Available
Evaporation Rate	:	<1
Boiling Point	:	104° C, 219° F
Freezing/Melting Point	:	Not Available
pH	:	6 - 8.5
Solubility	:	Completely miscible

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity	Stable
Conditions to Avoid	Reaction with caustic can create heat (strong exothermic reaction).
Incompatible Materials	Alkalies; reactive metals.
Materials to Avoid	Caustics
Hazardous Decomposition Products	Not Available
Additional Information	No additional remark

SECTION 11 – TOXICOLOGICAL INFORMATION

Skin Contact	:	Causes irritation with discomfort, local redness, and possible swelling.
Eye Contact	:	Causes eye irritation. Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.
Ingestion	:	May be harmful if large amounts are swallowed.
Inhalation	:	May be harmful if inhaled.

Exposure Effects	:	Pre-existing eye and skin disorders may be aggravated by exposure to this product.
Carcinogenicity	:	No components are listed as carcinogens by IARC and ACGIH.
Genotoxicity	:	Not Available
Reproductive Effects	:	Not Available
Teratogenicity	:	Not Available
Embryotoxicity	:	Not Available
Mutagenicity	:	Not Available

SECTION 12 – ECOLOGICAL INFORMATION

General Comments The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method 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

TDG Shipping Regulations UN 3265, Corrosive Liquid, Acidic, Organic, N.O.S (Citric Acid), 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
 PMC Water Systems Services Inc.
 124 Connie Crescent, Unit 9
 Concord Ontario L4K 1L7
 Date Prepared : September 14, 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.