



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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SAFETY DATA SHEET C-2018

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-2018
Product Use : Water Treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Sodium Metasilicate	5-15%	6834-92-0	600 mg/kg (oral - rat)	No Data Available

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Statements : May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if swallowed.

Precautionary Statements : Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. Call a Poison Center/doctor if you feel unwell. If on skin (or hair): immediately take off all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a Poison Center/doctor. 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/doctor. Store locked up. Keep only in original packaging. Absorb spillage to prevent material damage. Store in a closed container. Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

SECTION 4 – FIRST AID MEASURES

Eye Contact : Immediately flush eye(s) with plenty of water for at least 15 minutes. Get medical attention immediately after flushing.

Skin Contact : Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention immediately.

Inhalation : Remove victim to fresh air. If breathing stops, begin artificial respiration immediately. If breathing is difficult, give oxygen and get immediate medical attention.

Ingestion : Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious or convulsing person.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability : Not Flammable

Flash Point : Not Applicable

Autoignition Temperature : Not Available

Extinguishing Media : As for surrounding fire.

Special Procedures : Fire fighters should wear full protective clothing, including self-contained breathing equipment.

Hazardous Combustion Products : Hydrogen

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective equipment.
Environment Precautions	Ensure spilled product does not enter sewers or streams; dike if needed. Consult local authorities. Sinks and mixes with water. High pH of this material is harmful to aquatic life.
Spill Response/Cleanup	Scoop up or vacuum up and place in an appropriate closed container. Avoid raising dust. Restrict access to unprotected personnel. Flush area with water to remove trace residue. Do not touch or walk through spilled material. Neutralize contamination area and flush with large quantities of water.

SECTION 7 – HANDLING AND STORAGE

Handling	Avoid contact with eyes, skin and clothing. Avoid breathing vapour. Promptly clean residue from closures with a water dampened cloth. Promptly clean up spills.
Storage Requirements	Store in clean, tightly closed steel, fiber, or plastic containers. Place away from incompatible materials. This product can absorb water from the air. In case of high humidity or storage for extended periods of time, use plastic bags to enclose product containers to avoid caking. Use first in, first out storage system. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers. Keep from freezing.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	Use with adequate ventilation. Use local exhaust if mist or spray is generated.
Respiratory Protection	Use NIOSH approved combination dust and mist respirator where spray mist occurs.
Skin Protection	Apron, coveralls, gloves and/or other protective clothing.
Eye/Face Protection	Chemical goggles; also wear a face shield if splashing hazard exists
Other Comments	An eyewash station and safety shower must be available in immediate work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Thick liquid
Odour and Appearance	:	Slight Sweet Odour; Amber Liquid
Odour Threshold	:	No Data Available
Specific Gravity (Water = 1)	:	1.05 – 1.15 g/cc
Vapour Pressure (mmHg)	:	Not Available
Vapour Density (Air = 1)	:	Not Available
Evaporation Rate	:	Not Available
Boiling Point	:	100°C, 212°F
Freezing/Melting Point	:	-2°C, 28.4°F
pH	:	10 – 11
Coefficient Water/Oil Distribution	:	Not Applicable
Solubility in Water	:	Miscible in water

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity	Stable
Incompatible Materials	Can generate heat when mixed with acid. May react with ammonium salt solutions resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc. Carbon monoxide gas may be produced on contact with reducing sugars. When wet avoid prolonged contact with alkali sensitive metals such as aluminum, brass, bronze, copper, lead, tin, zinc because flammable hydrogen gas can be generated.
Hazardous Decomposition Products	Hydrogen, Carbon monoxide.
Hazardous Polymerization	Will not occur
Additional Information	Dries to form glass film which can easily cut skin. Can etch glass if not promptly removed.

SECTION 11 – TOXICOLOGICAL INFORMATION

Effects of Acute Exposure		
Skin Contact	:	Corrosive. Causes burns.
Eye Contact	:	Corrosive. Causes eye burns.
Ingestion	:	Corrosive to the respiratory passage. Mists may cause irritation of upper respiratory tract.
Inhalation	:	Corrosive. Causes burns to the mouth, throat and stomach.
Chronic Exposure Effects	:	May cause irritation to nose, throat and respiratory tract. If ingested, it may cause nausea, vomiting and diarrhea. Irritant to eyes and skin. May result in dermatitis.

Irritancy	: Slight
Carcinogenicity	: None Known
Teratogenicity	: None Known
Mutagenicity	: None Known
Reproductive Effects	: None Known

SECTION 12 – ECOLOGICAL INFORMATION

General Comments Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Sinks and dissolves in water. This material is not persistent in aquatic systems, but its high pH when undiluted or unneutralized is acutely harmful to aquatic life. Diluted material rapidly depolymerizes to yield dissolved silica in a form that is indistinguishable from natural dissolved silica. This material does not bioaccumulate except in species that use silica as a structural material such as diatoms and siliceous sponges.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Dispose in accordance with federal, provincial or local government requirements.

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

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.