



# PMC WATER SYSTEMS SERVICES INC.

## 124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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### MATERIAL SAFETY DATA SHEET

#### C-2017

#### 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-2017  
**Product Use** : Water Treatment

#### SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD <sub>50</sub>	LC <sub>50</sub>
Sodium Silicate	15-40%	1344-09-8	1960 mg/kg (oral - rat)	No Data Available

#### SECTION 3 – HAZARDS IDENTIFICATION

**Potential Health Effects** Signs and Symptoms of Short-Term (Acute) Exposure  
**Eye Contact** Causes eye irritation.  
**Skin Contact** Causes moderate skin irritation.  
**Inhalation** Spray mist may cause irritation of the upper respiratory tract.  
**Ingestion** May cause irritation to mouth, esophagus and stomach.  
**Physical Hazards** Dries to form glass film, which can easily cut skin. Spilled material is very slippery. Can etch glass if not promptly removed.

#### 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** Material is noncombustible  
**Flash Point** None  
**Autoignition** Not Available  
**Temperature**  
**Extinguishing Media** Use extinguishing media appropriate for surrounding fire. This material is compatible with all extinguishing media.  
**Special Procedures** Fire fighters should wear full protective clothing, including self-contained breathing equipment.  
**Hazardous Combustion Products** Not Available

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Wear appropriate protective equipment.
<b>Environment Precautions</b>	Ensure spilled product does not enter sewers or streams; dike if needed.
<b>Spill Response/Cleanup</b>	Absorb with an inert dry material and place in an appropriate waste disposal container. Isolate hazard and restrict access. Prevent spilled material from entering sewers, confined spaces, drains or waterways. Dike area to contain spill. Neutralize contamination area and flush with large quantities of water. Spilled material may cause floors and contact surfaces to become slippery.

## SECTION 7 – HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with eyes, skin and clothing. Avoid breathing vapour. Promptly clean residue from closures with a water dampened cloth. Promptly clean up spills.
<b>Storage Requirements</b>	Keep containers tightly closed. Store in clean steel or plastic containers. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers. Separate from acids, reactive materials and ammonium salts. Store between 0°C to 95°C. Loading temperature 45°C to 95°C.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	:	Thick liquid
<b>Odour and Appearance</b>	:	Odourless; Clear to hazy white
<b>Odour Threshold</b>	:	Not Applicable
<b>Specific Gravity (Water = 1)</b>	:	1.394
<b>Vapour Pressure (mmHg)</b>	:	Not Available
<b>Vapour Density (Air = 1)</b>	:	Not Available
<b>Evaporation Rate</b>	:	Not Available
<b>Boiling Point</b>	:	Not Available
<b>Freezing/Melting Point</b>	:	Not Available
<b>pH</b>	:	11.3
<b>Coefficient Water/Oil Distribution</b>	:	Not Applicable
<b>Solubility in Water</b>	:	Miscible in water

## SECTION 10 – STABILITY AND REACTIVITY

<b>Stability/Reactivity</b>	Stable
<b>Incompatible Materials</b>	Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead and zinc.
<b>Hazardous Decomposition Products</b>	Hydrogen
<b>Hazardous Polymerization</b>	Will not occur
<b>Additional Information</b>	Dries to form glass film which can easily cut skin.

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Effects of Acute Exposure</b>	
<b>Skin Contact</b>	: Causes moderate skin irritation.
<b>Eye Contact</b>	: Causes eye irritation.
<b>Ingestion</b>	: May cause irritation to mouth, esophagus and stomach. Causes digestive tract irritation.
<b>Inhalation</b>	: Mists may cause irritation of upper respiratory tract.
<b>Chronic Exposure Effects</b>	: Frequent ingestion over extended periods of time of gram quantities of silicates is associated with the formation of kidney stones and other siliceous urinary calculi in humans.
<b>Exposure Limit</b>	: Not Available
<b>Irritancy</b>	: Not Available

**Carcinogenicity** : Not listed by IARC and ACGIH  
**Teratogenicity** : Not Available  
**Mutagenicity** : Not Available  
**Reproductive Effects** : Not Available

## 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. May be harmful to aquatic life.

## 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** D2B - Toxic Material

## SECTION 16 – OTHER INFORMATION

**Prepared by:** Lab Services  
PMC Water Systems Services Inc.  
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Concord Ontario L4K 1L7

**Preparation Date:** January 3, 2017

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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.