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
W-5011-M

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
Manufacture's Phone #	:	(905) 669-8262
24 Emergency Phone #	:	Canutec (613) 996-6666
Product Identifier	:	W-5011-M
Product Use	:	Waste Water Coagulant

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	**Concentration**	**CAS #**	**LD_{50}**	**LC_{50}**
Magnesium Chloride	28 – 42%	7786-30-3	No Data Available	No Data Available

SECTION 3 – HAZARDS IDENTIFICATION

Potential Health Effects	Signs and Symptoms of Short-Term (Acute) Exposure
Eyes	Causes serious eye irritation.
Skin	Causes skin irritation.
Precautionary Statement	Wash thoroughly after handling.

SECTION 4 – FIRST AID MEASURES

Eye Contact	If in eyes, immediately rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs, get medical advice/attention.
Skin Contact	If on skin, wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Inhalation	Wash thoroughly with soap and water. Seek medical attention if skin irritation develops and persists. If inhalation of vapor, mist, or spray occurs and adverse effects result, move person to fresh air and keep comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
Ingestion	If swallowed, rinse mouth. Contact a poison center or doctor/physician if you feel unwell.
Notes to Physician	Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability	This material does not burn.
Flash Point	Not Applicable
Autoignition Temperature	Not Applicable
Means of Extinction	Use media appropriate for surrounding fire.
Special Firefighting Procedures/Equipment	Keep unnecessary people away, isolate hazard area and deny entry. Water should be applied in large quantities as fine spray. Firefighters should wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode in addition to protective equipment. Avoid contact with this material

during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location.

Hazardous Combustion Products	Forms under fire conditions: hydrogen chloride gas, calcium oxide.
NFPA Ratings	Health 1, Flammability 0, Instability 0
HMIS Ratings	Health 1, Flammability 0, Reactivity 0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard on some surfaces. Use appropriate personal protective equipment.
Environment precautions	Prevent large spills from entering into soil, ditches, sewers, waterways and/or groundwater.
Spill Response/Cleanup	Small and large spills: Contain spilled material if possible. Absorb with materials such as sand. Collect in suitable and properly labeled containers. Flush residue with plenty of water.

SECTION 7 – HANDLING AND STORAGE

Handling	Good industrial practice in housekeeping and personal hygiene should be followed. Avoid contact with eyes, skin and clothing. Do not swallow. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.
Storage Requirements	Protect from atmospheric moisture. Keep containers closed when not in use. Keep separated from incompatible substances.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.
Respiratory Protection	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate respirator.
Skin Protection	Use chemical resistant gloves (neoprene, PVC/vinyl, nitrile/NBR).
Eye/Face Protection	Wear chemical safety googles/glasses with side-shields.
Other Comments	An eyewash station and safety shower should be available
General Hygiene	Wash hands before breaks and at the end of the workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Odour and Appearance	:	Odourless; clear to slight amber colour
Odour Threshold	:	Not Applicable
Specific Gravity (Water = 1)	:	1.275 – 1.439 @ 25°C,77°F°°
Vapour Pressure (mmHg)	:	9 – 15 @ 25°C, 77°F
Vapour Density (Air = 1)	:	Not Available
Evaporation Rate	:	No Data Available
Boiling Point	:	110-122°C, 230-252°F
Freezing/Boiling Point	:	-43 to 21°C, -46 to 69°F
pH	:	9 – estimated (diluted)
Solubility in Water	:	Completely miscible

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity	Stable at normal temperatures and pressures; hygroscopic
Conditions for Instability	None known
Incompatible Materials	Avoid contact with: bromide trifluoride, 2-furan percarboxylic acid. Contact with zinc forms flammable hydrogen gas, which can be explosive. Catalyzes exothermic polymerization of methyl vinyl ether. May release flammable hydrogen gas. Reaction of bromide impurity with oxidizing materials may generate trace levels of impurities such as bromates.
Hazardous Decomposition	Formed under fire conditions: hydrogen chloride gas, calcium oxide.

Products
Hazardous Polymerization Hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Entry	:	Eyes, skin, respiratory and digestive system.
Skin Contact	:	Brief contact is essentially nonirritating to skin. Prolonged contact may cause skin irritation, even a burn. May cause more severe response if skin is damp, abraded (scratched or cut), or covered by clothing, gloves, or footwear. Not classified as corrosive to the skin according to DOT guidelines.
Eye Contact	:	May cause serious eye irritation. May cause slight corneal injury. Effects may be slow to heal.
Ingestion	:	Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Swallowing may result in gastrointestinal irritation or ulceration.
Inhalation	:	Vapors are unlikely due to physical properties. Mist may cause irritation to upper respiratory tract (nose and throat).
Chronic Exposure Effects	:	May cause chronic dermatitis or mucosal membrane problem.
Irritancy	:	Causes skin and serious eye irritation.
Sensitization	:	No Data Available
Carcinogenicity	:	This product is not classified as a carcinogen by NTP, IARC, or OSHA.
Teratogenicity	:	No Data Available
Mutagenicity	:	Not classified as a mutagen per GHS criteria.
Reproductive Effects	:	Not classified as a developmental or reproductive toxin per GHS criteria.

SECTION 12 – ECOLOGICAL INFORMATION

General Comments Material is practically non-toxic to aquatic organisms on an acute basis.

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 Not TDG Regulated

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification Class D2B: Toxic Material
Domestic Substances List All ingredients are listed on the DSL or are not required to be listed.

SECTION 16 – OTHER INFORMATION

Prepared by: Lab Services
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