



**PMC WATER SYSTEMS SERVICES INC.**  
**124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.**

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**MATERIAL SAFETY DATA SHEET**  
**W-5097**

**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** : W-5097  
**Product Use** : Water Treatment

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

<b>Ingredients</b>	<b>Concentration</b>	<b>CAS #</b>	<b>LD<sub>50</sub></b>	<b>LC<sub>50</sub></b>
Aluminum Chlorohydrate	30 – 60%	12042-91-0	No Data Available	No Data Available

**SECTION 3 – HAZARDS IDENTIFICATION**

**Potential Health Effects** Signs and Symptoms of Short-Term (Acute) Exposure  
**Eyes** May cause eye irritation with susceptible persons.  
**Skin** Slightly irritating.  
**Inhalation** Inhalation of the mist or vapour may cause irritation of the respiratory tract.  
**Ingestion** May cause mucous membrane and respiratory irritation.

**SECTION 4 – FIRST AID MEASURES**

**Eye Contact** Rinse immediately with plenty of water. Seek medical attention if irritation develops and persists.  
**Skin Contact** Wash thoroughly with soap and water. Seek medical attention if skin irritation develops and persists.  
**Inhalation** Immediately move victim to fresh air. If breathing is difficult, have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Seek medical attention.  
**Ingestion** Rinse mouth with water. Do not induce vomiting. Seek medical attention.

**SECTION 5 - FIRE FIGHTING MEASURES**

**Flammability** Not flammable  
**Flash Point** Does not flash.  
**Autoignition Temperature** Does not ignite.  
**Means of Extinction** Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.  
**Special Firefighting Procedures/Equipment** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.  
**Hazardous Combustion Products** Oxides of carbon and chlorine compounds including hydrogen chloride.  
**NFPA Ratings** Health 1, Flammability 0, Instability 0  
**HMIS Ratings** Health 1, Flammability 0, Reactivity 0

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Wear adequate personal protective equipment. Keep people away from spill/leak.
<b>Environment precautions</b>	Ensure spilled product does not enter drains, sewers, waterways or confined spaces. Do not flush into surface water.
<b>Spill Response/Cleanup</b>	Contain and recover liquid where possible. Soak up with inert absorbent material and place in appropriate containers for disposal. Prevent spill from entering sewers and water courses.

## SECTION 7 – HANDLING AND STORAGE

<b>Handling</b>	Good industrial practice in housekeeping and personal hygiene should be followed. Avoid contact with eyes and skin. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.
<b>Storage Requirements</b>	Store in a cool, dry place to maintain product performance. Freezing will affect the physical condition and may damage the material.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Ventilation</b>	Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.
<b>Respiratory Protection</b>	In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges or supplied or respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.
<b>Skin Protection</b>	PVC or other plastic gloves. Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.
<b>Eye/Face Protection</b>	Safety glasses with side-shields. Do not wear contact lenses where the product is used.
<b>Other Comments</b>	An eyewash station and safety shower should be available
<b>General Hygiene</b>	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.

Ingredient	Exposure Limit – ACGIH TLV	Exposure Limit – OSHA PEL
Aluminum Chlorohydrate	2 mg/m <sup>3</sup> AL (TWA)	2 mg/m <sup>3</sup> AL (TWA)

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	:	Liquid
<b>Odour and Appearance</b>	:	Odourless; clear, colourless
<b>Odour Threshold</b>	:	Not Available
<b>Specific Gravity (Water = 1)</b>	:	1.30 – 4.5
<b>Vapour Pressure (mmHg)</b>	:	17 @ 20°C, 68°F
<b>Vapour Density (Air = 1)</b>	:	1.3
<b>Evaporation Rate</b>	:	Not Applicable
<b>Boiling Point</b>	:	100°C, 212°F
<b>Freezing/Boiling Point</b>	:	Not Available
<b>pH</b>	:	3.5 – 4.5
<b>Solubility in Water</b>	:	Complete

## SECTION 10 – STABILITY AND REACTIVITY

<b>Stability/Reactivity</b>	Stable
<b>Conditions for Instability</b>	Avoid contact with mineral acids, excessive heat and bases/alkalis.
<b>Incompatible Materials</b>	Metals (zinc and aluminum), alkalis.
<b>Hazardous Decomposition Products</b>	Oxides of carbon and chlorine compounds including hydrogen chloride. Reacts with metals to form flammable hydrogen gas.
<b>Hazardous Polymerization</b>	Hazardous polymerization will not occur.

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Routes of Entry</b>	:	Eyes, skin, respiratory and digestive system. Absorbed through skin.
<b>Skin Contact</b>	:	May cause irritation on prolonged or repeated contact.
<b>Eye Contact</b>	:	May cause moderate to severe eye irritation with pain and tearing. Corneal damage is possible.

<b>Ingestion</b>	:	Ingestion may cause irritation of the mucous membranes, esophagus, and stomach. May cause nausea, vomiting and diarrhea. Large amounts may cause liver and kidney effects.
<b>Inhalation</b>	:	Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract.
<b>Chronic Exposure Effects</b>	:	Prolonged inhalation of aluminum chlorohydrate in laboratory animals causes fibrosis of the lungs.
<b>Irritancy</b>	:	Irritating to eyes, skin, respiratory and digestive tracts.
<b>Sensitization</b>	:	This material is not known to cause sensitization.
<b>Carcinogenicity</b>	:	None of the components listed is a carcinogen or suspected carcinogen by IARC, NTP or OSHA.
<b>Teratogenicity</b>	:	No Data Available
<b>Mutagenicity</b>	:	None currently known.
<b>Reproductive Effects</b>	:	No Data Available

## SECTION 12 – ECOLOGICAL INFORMATION

**General Comments** No ecotoxicity data is available.

## 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  
 PMC Water Systems Services Inc.  
 124 Connie Crescent, Unit 9  
 Concord Ontario L4K 1L7

**Preparation Date:** January 20, 2016

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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.

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