



# PMC WATER SYSTEMS SERVICES INC.

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

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### MATERIAL SAFETY DATA SHEET

#### SULPHAMIC ACID

#### 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** : Sulphamic Acid  
**Product Use** : Water Treatment

### SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

| Ingredients    | Concentration | CAS #     | LD <sub>50</sub>      | LC <sub>50</sub> |
|----------------|---------------|-----------|-----------------------|------------------|
| Sulphamic Acid | 60-100%       | 5329-14-6 | 3160 mg/kg (oral rat) | Not Available    |

### SECTION 3 – HAZARDS IDENTIFICATION

**Potential Health Effects** Signs and Symptoms of Short-Term (Acute) Exposure  
**Eye Contact** Corrosive. Causes blurred vision, redness, tearing and severe eye burns. May causes blindness.  
**Skin Contact** Corrosive. Can product redness, inflammation and blistering. May cause dermatitis.  
**Inhalation** Extremely destructive to mucous membranes and upper respiratory tract. Symptoms may include burning sensation, sneezing, coughing, shortness of breath, headache, nausea and vomiting. Repeated or prolonged inhalation can produce lung damage, pulmonary edema, choking, unconsciousness or death.  
**Ingestion** Corrosive. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause liver and kidney damage.  
**Chronic Effects** Repeated exposure can produce eye irritation, local skin destruction or dermatitis, respiratory irritation or lung damage and chronic respiratory irritation.

### SECTION 4 – FIRST AID MEASURES

**Eye Contact** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.  
**Skin Contact** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Consult a physician immediately. Discard or wash contaminated clothing before reuse.  
**Inhalation** Remove victim to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Seek immediate medical attention.  
**Ingestion** Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Get medical attention immediately.

### SECTION 5 - FIRE FIGHTING MEASURES

**Flammability** Non-flammable  
**Flash Point** Not Applicable  
**Autoignition** Not Applicable  
**Temperature**  
**Extinguishing Media** Carbon dioxide, dry chemical, foam and water fog  
**Special Procedures** Water solution of sulphamic acid is extremely acidic. Firefighters should wear full protective clothing including self-contained breathing equipment.  
**Hazardous Combustion Products** Burning can produce oxides of sulphur and ammonia.  
**NFPA Ratings** Health 3, Flammability 0, Instability 0  
**HMIS Ratings** Health 3, Flammability 0, Reactivity 0

## 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>  | Ventilate area. Isolate hazard and restrict access. Place solids in appropriate sealed container for later disposal. Neutralize with lime slurry, limestone or soda ash. |

## SECTION 7 – HANDLING AND STORAGE

|                             |  |
|-----------------------------|--|
| <b>Handling</b>             | Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Use only in well ventilated areas. Wash thoroughly after handling.                |
| <b>Storage Requirements</b> | Store in a cool, dry, well-ventilated area. Keep containers tightly closed. Protect against moisture, water and physical damage. Avoid storage with incompatible materials. Store away from sources of ignition. |

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

|                               |   |
|-------------------------------|---|
| <b>Ventilation</b>            | Use only in well ventilated areas. Use local exhaust if mist or spray is generated. |
| <b>Respiratory Protection</b> | For dusty or misty conditions, wear NIOSH-approved dust or mist respirator.         |
| <b>Skin Protection</b>        | Impervious chemical resistant gloves. Chemical resistant clothing and boots         |
| <b>Eye/Face Protection</b>    | Chemical splash goggle; full face shield may be necessary                           |
| <b>Other Comments</b>         | An eyewash station and safety shower should be available                            |
| <b>General Hygiene</b>        | Avoid breathing vapor or mist. Avoid contact with skin, eyes and clothing.          |

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

|   |                                   |
|---|-----------------------------------|
| <b>Physical State</b>                     | : Solid                           |
| <b>Odour and Appearance</b>               | : Odourless; white crystalline    |
| <b>Odour Threshold</b>                    | : No Data Available               |
| <b>Specific Gravity (Water = 1)</b>       | : 2.126                           |
| <b>Vapour Pressure (mmHg)</b>             | : Non-volatile                    |
| <b>Vapour Density (Air = 1)</b>           | : Not Available                   |
| <b>Evaporation Rate</b>                   | : Not Available                   |
| <b>Boiling Point</b>                      | : Decomposition at 209°C, 408.2°F |
| <b>Freezing Point</b>                     | : Melting point 205°C, 401°F      |
| <b>pH</b>                                 | : 1.18 (1%)                       |
| <b>Coefficient Water/Oil Distribution</b> | : 12-14                           |
| <b>Solubility in Water</b>                | : Soluble                         |

## SECTION 10 – STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Stability/Reactivity</b>             | Stable when dry, but slowly hydrolyzes in solution.   |
| <b>Incompatible Materials</b>           | Chlorine, hypochlorous acid, hypochlorite, cyanide or sulphur                                     |
| <b>Conditions of Reactivity</b>         | Water. Excessive heat, sparks and open flame in presence of oxidizing materials.                  |
| <b>Hazardous Decomposition Products</b> | Burning can produce toxic and corrosive fumes of ammonia and toxic acids of nitrogen and sulphur. |
| <b>Hazardous Polymerization</b>         | Will not occur  |

## SECTION 11 – TOXICOLOGICAL INFORMATION

|                                 |  |
|---------------------------------|--|
| <b>Routes of Entry</b>          | : Skin and eye contact, ingestion, inhalation,   |
| <b>Skin Contact</b>             | : Corrosive. May cause chemical burns, redness, blistering and dermatitis.   |
| <b>Eye Contact</b>              | : Corrosive. Causes eye burns.   |
| <b>Ingestion</b>                | : Corrosive. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause liver and kidney damage.  |
| <b>Inhalation</b>               | : Extremely destructive to mucous membranes and upper respiratory tract. Repeated or prolonged inhalation may cause ulceration and perforation of the nasal septum. Vapours may cause pulmonary edema.   |
| <b>Chronic Exposure Effects</b> | : The substance is toxic to lungs, mucous membranes. Repeated exposure of low level dust can produce eye irritation. Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged inhalation of dust may lead to varying degree of respiratory irritation, lung damage or chronic respiratory irritation. Extremely hazardous in case of skin contact, ingestion and inhalation. |

|                             |   |
|-----------------------------|---|
| <b>Irritancy</b>            | : Strong irritant, will cause tissue damage.    |
| <b>Carcinogenicity</b>      | : Not listed as a carcinogen by IARC and ACGIH. |
| <b>Teratogenicity</b>       | : Not Available                                 |
| <b>Mutagenicity</b>         | : Not Available                                 |
| <b>Reproductive Effects</b> | : 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** UN 2967, Sulphamic 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  
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**Preparation Date:** January 3, 2017

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.