



# PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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## MATERIAL SAFETY DATA SHEET

### R-400 & R-401

### SILVER NITRATE

#### Protection Required



#### MATERIAL IDENTIFICATION AND USE

<b>Manufacturer's Name</b>	:	PMC Water Systems Services Inc.
<b>Manufacturer's Address</b>	:	124 Connie Crescent, Unit 9, Concord, ON L4K 1L7
<b>Manufacturer's Phone #</b>	:	(905) 669-8262
<b>24 Emergency Phone #</b>	:	Canutec (613) 996-6666
<b>Product Identifier</b>	:	R-400 and R-401
<b>Product Use</b>	:	Test Reagent
<b>WHMIS Class</b>	:	[D2B] Toxic, [E] Corrosive
<b>TDG Class</b>	:	Sulphamic Acid, Class 8, UN 2967, PG III

#### HAZARDOUS INGREDIENTS OF MATERIAL

<b>Ingredients</b>	<b>Concentration</b>	<b>CAS #</b>	<b>LD<sub>50</sub></b>	<b>LC<sub>50</sub></b>
Sulphamic Acid	60 – 100%	5329-14-6	No Data Available	No Data Available

The remaining ingredients are not classified as hazardous according to the DSL.

#### PHYSICAL DATA FOR PRODUCT

<b>Physical State</b>	:	Powder
<b>Odour and Appearance</b>	:	Odourless; Colourless
<b>Odour Threshold</b>	:	Not Applicable
<b>Specific Gravity (Water = 1)</b>	:	1.4 g/cc
<b>Vapour Pressure (mmHg)</b>	:	Not Applicable
<b>Vapour Density (Air = 1)</b>	:	Not Applicable
<b>Evaporation Rate</b>	:	Not Applicable
<b>Boiling Point</b>	:	Not Applicable
<b>Freezing Point</b>	:	Not Applicable
<b>pH</b>	:	2.5 (1% Solution)
<b>Coefficient Water/Oil Distribution</b>	:	No Data Available

#### FIRE AND EXPLOSION HAZARD OF PRODUCT

<b>Flash Point And Method of Determination</b>	:	Not Available
<b>Conditions of Flammability</b>	:	Not Flammable
<b>Means of Extinction</b>	:	Dry chemical, carbon dioxide and foam
<b>Upper Explosion Limit</b>	:	No Data Available
<b>Lower Explosion Limit</b>	:	No Data Available
<b>Auto-Ignition Temperature</b>	:	No Data Available
<b>Hazardous Combustion Products</b>	:	When product is involved in a fire, firefighters should wear full protective clothing and self-contained breathing apparatus if exposed to vapours or products of combustion.

## REACTIVITY DATA

<b>Stability</b>	:	Stable
<b>Incompatible Materials</b>	:	Oxidizers and nitrite
<b>Conditions of Reactivity</b>	:	No Data Available
<b>Hazardous Decomposition Products</b>	:	Oxides of nitrogen and sulphur

## TOXICOLOGICAL PROPERTIES

<b>Routes of Entry</b>	:	
<b>Skin Contact</b>	:	Yes
<b>Skin Absorption</b>	:	Yes
<b>Eye Contact</b>	:	Yes
<b>Ingestion</b>	:	Yes
<b>Inhalation</b>	:	Yes
<b>Acute or Over Exposure Effects</b>	:	Will irritate mucous membranes
<b>Chronic Exposure Effects</b>	:	No Data Available
<b>Exposure Limit</b>	:	No Data Available
<b>Irritancy</b>	:	No Data Available
<b>Sensitization</b>	:	No Data Available
<b>Carcinogenicity</b>	:	None Known
<b>Teratogenicity</b>	:	None Known
<b>Mutagenicity</b>	:	None Known
<b>Reproductive Effects</b>	:	None Known

## PREVENTATIVE MEASURES

<b>Personal Protective Equipment</b>	:	Safety glasses and rubber gloves
<b>Respiratory Protection</b>	:	Not normally required
<b>Ventilation Requirements</b>	:	Normal room ventilation
<b>Spill and Leak Procedures</b>	:	Dilute with water, neutralize with soda ash and flush into the sewer with abundant water.
<b>Storage Requirements</b>	:	None
<b>Special Handling Information</b>	:	None

## FIRST AID MEASURES

Flush eyes with abundant water for 15 minutes. Call a physician. Wash skin with soap and water. In case of ingestion, give large amounts of water. Do not induce vomiting. Call a physician.

## PREPARATION INFORMATION

<b>Prepared By</b>	:	Lab Services PMC Water Systems Services Inc. 124 Connie Crescent, Unit 9 Concord, ON L4K 1L7
<b>Phone</b>	:	905-669-8262
<b>Fax</b>	:	905-669-8252
<b>Date Prepared</b>	:	August 11, 2013

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.