



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

B-3001

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 : B-3001
Product Use : Water treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Sodium Hydroxide	1-5%	1310-73-2	1500 mg/kg (oral – rat)	No Data Available
Sodium Molybdate	7-15%	10102-40-6	520 mg/kg (oral – rat)	Not Data Available
Morpholine	1-5%	110-91-8	1250 mg/kg (oral – rat)	Not Data Available

SECTION 3 – HAZARDS IDENTIFICATION

Acute Health Effects Caution: sodium hydroxide solution burns can be painless and may not warn of dangerous injury

Eye Contact Corrosive. Contact causes burns with redness, swelling, pain and blurred vision. Causes eye burns. Irreversible damage to the eyes.

Skin Contact May cause severe irritation or tissue damage depending on the length of exposure and type of first aid administered. Permanent scarring can result. Burns may not be immediately painful; onset of pain may be delayed minutes to hours.

Inhalation Not expected to be an inhalation hazard unless it becomes an airborne dust or mist. Can cause severe irritation of the mucous membranes of the eyes, mouth and respiratory tract.

Ingestion Not a likely route of exposure. Corrosive. Causes chemical burns to the mouth, throat and stomach.

SECTION 4 – FIRST AID MEASURES

Eye Contact Wash eyes with plenty of water for at least 15 minutes, holding eyelids open. Seek medical attention immediately after flushing.

Skin Contact Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered. Get medical attention.

Inhalation Remove victim to fresh air. If breathing stops, administer artificial respiration and seek medical aid promptly. If breathing is difficult, get immediate medical attention.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Give plenty of water to dilute product. If vomiting occurs, keep victim's head below hips to prevent inhalation of vomited material. **Seek medical help immediately!**

Notes to Physician NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this product. *Moreover, this product can damage the esophagus on the way down and will cause further damage in the reverse direction!* The stomach should be emptied under medical supervision after the installation of an airway to protect the lungs.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability Not Flammable
Flash Point Not Applicable

B-3001

www.pmcwatersystems.com

Page 1/3

Autoignition	Not Available
Temperature	
Extinguishing Media	Use extinguishing media appropriate for surrounding fire. Water is not recommended, but may be applied in large quantities as a fine spray when other extinguishing agents are not available.
Special Firefighting Procedures/Equipment	Evacuate nonessential personnel from fire area. Product reacts with water, possibly violently, which may produce heat and/or gases. Fire fighters must wear full face, positive pressure, self-contained breathing apparatus and appropriate protective clothing.
Hazardous Combustion Products	Sodium oxide, peroxides, carbonates may form in fire. Toxic fumes. Metal oxide fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Safety goggles. Wear protective clothing and equipment.
Environment Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Consult local authorities.
Spill Response/Cleanup	Sweep up spilled solid material being careful not to create dust. Cautiously spray residue with plenty of water. Provide ventilation to clear sulfur dioxide fumes which may be generated by the sodium sulfite component.

SECTION 7 – HANDLING AND STORAGE

Handling	Corrosive material. Avoid contact with eyes, skin and clothing. Do not ingest. Use with adequate ventilation. Do not inhale vapour or mist. Use appropriate personal protective equipment. Handle in accordance with good industrial hygiene and safety practices. Do not mix with acids. Keep containers closed when not in use. Empty product containers may contain residue. Follow label warnings even after container is emptied.
Storage Requirements	Store in a cool, dry, well-ventilated. Store in original tightly closed container. Store separately from acids.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	Local exhaust if dusty conditions exist or if there is a release of sulfur dioxide gas. Do not use in unventilated spaces.
Respiratory Protection	Where required, use a NIOSH-approved respirator for dust, mist and/or sulfur dioxide gas, as conditions indicate. Some exposures may require a NIOSH-approved self-contained breathing apparatus or supplied-air respirator.
Skin Protection	gloves, full work clothing, including long-sleeved shirt and pants.
Eye/Face Protection	Chemical safety goggles; Do NOT wear contact lenses.
Other Comments	An eyewash station and safety shower should be available

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Sodium Hydroxide	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling	10 mg/m ³
Sodium Molybdate	5 mg/m ³ TWA	5 mg/m ³ TWA	Not Available

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Odour and Appearance	:	Slight sweet odour; amber liquid
Odour Threshold	:	Not Available
Specific Gravity (Water = 1)	:	1.07
Vapour Pressure (mmHg)	:	Not Available
Vapour Density (Air = 1)	:	Not Available
Evaporation Rate	:	Not Available
Boiling Point	:	-4°C, 24.8°F
Freezing/Melting Point	:	-4°C, 24.8°F
pH	:	13 - 14, 1% solution
Solubility in Water	:	Complete

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity	Stable under normal conditions
Conditions for Instability	Freezing temperatures.
Incompatible Materials	Contact with strong acids (eg sulphuric, phosphoric, nitric, hydrochloric, chromic, sulphonic) may generate heat, splattering or boiling and toxic vapours.
Hazardous Decomposition Products	Oxides of carbon, nitrogen, phosphorus.
Hazardous Polymerization	Hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Skin Contact	:	Brief contact may cause skin burns and irritation.
Eye Contact	:	Corrosive. Will cause eye burns and permanent tissue damage.
Ingestion	:	Can cause burns to mouth, esophagus and stomach.
Inhalation	:	Can cause damage to upper respiratory tract and lung tissue.
Chronic Exposure Effects	:	No identifiable symptoms from exposure not previously mentioned.
Irritancy	:	No Data Available
Sensitization	:	No Data Available
Carcinogenicity	:	No Data Available
Teratogenicity	:	Not Available
Mutagenicity	:	Not Available
Reproductive Effects	:	Not Available

SECTION 12 – ECOLOGICAL INFORMATION

General Comments Toxic to aquatic life. May increase pH of waterways and adversely affect aquatic life.

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. Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14 – TRANSPORT INFORMATION

TDG Shipping Regulations UN 1824, Corrosive Liquid, NOS (Sodium Hydroxide Solution), Class 8, PG III

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification Class D2B: Toxic Material
Class E: Corrosive 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: May 23, 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.