



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-3005

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-3005
Product Use : Boiler Water Treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Sodium Molybdate	7-15%	10102-40-6	520 mg/kg (oral - rat)	No Data Available
Sodium Hydroxide	1-5%	1310-73-2	800 mg/kg (oral - rat)	No 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
Autoignition Not Available

B-3005

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Page 1/3

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.
Explosion Data	Not Applicable
Hazardous Combustion Products	Sodium oxide, peroxides, carbonates may form in fire. Toxic fumes. Metal oxide fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Safety eye goggles. Wear protective clothing and equipment.
Environment Precautions	Do not contaminate surface water.
Spill Response/Cleanup	Isolate hazard area and restrict access. Stop leak if without risk. Ventilate spill area if possible. Small Spills: soak up spill with absorbent material. Place residues in a suitable, covered container. Wash affected area. For larger spills, reclaim into recovery or salvage drum or tanker truck for proper disposal.

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	Good general ventilation should be sufficient for most conditions.
Respiratory Protection	Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use a NIOSH approved air-purifying respirator.
Skin Protection	Neoprene, nitrile, PVC, butyl or rubber gloves. Impervious safety boots.
Eye/Face Protection	Chemical safety goggles; face shield.
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 g/cc
Vapour Pressure (mmHg)	: No Data Available
Vapour Density (Air = 1)	: No Data Available
Evaporation Rate	: No Data Available
Boiling Point	: No Data Available
Freezing/Melting Point	: -2° C, 28.4° F
pH	: 13 – 14
Coefficient Water/Oil Distribution	: Not Applicable
Solubility in Water	: No Data Available

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity	Stable under normal conditions
Conditions for Avoid	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

Routes of Entry	:	Eyes, skin.
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	:	Not Available
Sensitization	:	Not Available
Carcinogenicity	:	Not 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.

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

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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.
