



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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SAFETY DATA SHEET B-3401

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-3401
Product Use : Water treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Sodium Metabisulphite	10-30%	7681-57-4	1131 mg/kg (oral – rat)	No Data Available
Potassium Hydroxide	10-15%	1310-58-3	273 mg/kg (oral – rat)	Not Data Available
Morpholine	1-10%	110-91-8	1250 mg/kg (oral – rat)	Not Data Available

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Statement Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life
Precautionary Statement Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed - Rinse mouth. Do NOT induce vomiting. If on skin (or hair) - Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Center/doctor. If inhaled - Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse. Avoid release to the environment. Store locked up. Dispose of contents/container in accordance with local/regional national/international regulations.

SECTION 4 – FIRST AID MEASURES

Eye Contact Flush eyes with water for at least 15 minutes holding eyelids wide open. Get immediate medical attention.
Skin Contact Flush exposed areas with water for 15 minutes. Treat for burns. Get medical attention. Remove exposed clothing and wash well before reuse.
Inhalation Remove subject to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep subject warm and at rest. Get immediate medical attention.
Ingestion Do not induce vomiting. If subject is conscious, give large amounts of water. Get immediate emergency medical attention. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability No Data Available
Flash Point None
Autoignition Temperature No Data Available
Extinguishing Media Water fog or spray, foam, dry powder, carbon dioxide (CO2).

Special Firefighting Procedures/Equipment

If contact with other chemicals or electrical services occurs during a fire, hazardous gases may be produced. If possible remove container from fire area. Apply cooling water to container side. Do not release run off from fire control to the sewer or waterway. Fire fighters should wear self-contained breathing apparatus with full face piece.

Hazardous Combustion Products

No Data Available

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

Remove all ignition sources. Contain spill and ventilate area. Collect spilled material into suitable containers for disposal.

SECTION 7 – HANDLING AND STORAGE

Handling

Avoid contact with eyes, skin and clothing. Use good personal hygiene. Wear hand and foot protection when moving heavy drums. Protect containers against physical damage.

Storage Requirements

Store in a cool, dark well-ventilated area away from direct sunlight and other sources of radiant heat. Keep containers tightly closed when not in use.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation

Use in well-ventilated area with local exhaust.

Respiratory Protection

Not required for ordinary use. During emergency conditions or if a spill occurs, an appropriate OSHA approved air purifying respirator should be worn.

Skin Protection

Non-slip vinyl or rubber gloves; protective footwear and an apron should be worn when handling drums.

Eye/Face Protection

Safety goggles and a face shield,

Other Comments

An eyewash station and safety shower should be available. Wash all contaminated equipment and clothing before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Odour and Appearance	:	Amine odour; brown
Odour Threshold	:	Not Applicable
Specific Gravity (Water = 1)	:	1.198g/cc
Vapour Pressure (mmHg)	:	Same as water
Vapour Density (Air = 1)	:	Not Data Available
Evaporation Rate	:	< 1
Boiling Point	:	102°C, 215°F
Freezing/Melting Point	:	No data available
pH	:	12 – 13, 1% solution
Solubility in Water	:	Complete

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity

Stable under normal conditions.

Conditions for Instability

Contact with acids.

Incompatible Materials

Nitrites, metals, strong mineral acids, bromine and chlorine release agents.

Hazardous Decomposition Products

Sulfur dioxide, sulfur oxides, sodium sulfide residue. Toxic vapors. Potassium dioxide. May react with certain metals to produce hydrogen gas

Hazardous Polymerization

Hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Skin Contact

: Causes severe skin burns.

Eye Contact

: Causes severe eye burns and eye damage.

Ingestion

: Harmful if inhaled.

Inhalation

: Causes severe irritation of the respiratory tract. Nasal, mucous and bronchial tissue may be burned or permanently damaged.

Acute Exposure Effects

: Causes severe skin burns and eye damage.

Chronic Exposure Effects

: Burns can be slow to heal, but there are no known chronic health hazards.

Irritancy	:	Eyes and skin. Inhalation and ingestion.
Sensitization	:	No Data Available
Carcinogenicity	:	This product contains no known or suspected carcinogens.
Teratogenicity	:	Not Available
Mutagenicity	:	Not Available
Reproductive Effects	:	Not Available

SECTION 12 – ECOLOGICAL INFORMATION

General Comments Unknown aquatic toxicity levels. No Data 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. Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14 – TRANSPORT INFORMATION

TDG Shipping Regulations UN 1760, Corrosive Liquid, N.O.S. (Potassium Hydroxide, Morpholine Solution), 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 D2B: Toxic Material
Class E: Corrosive Material

SECTION 16 – OTHER INFORMATION

Prepared by: Lab Services
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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.