



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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SAFETY DATA SHEET C-3612

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 : C-3612
Product Use : Chlorine based bleaching agents, sterilization

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Signal Word Danger
Hazard Statement May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Precautionary Statement Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Center or doctor/physician. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/container to an approved waste disposal plant.

SECTION 3 – HAZARDS IDENTIFICATION

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Sodium Hydroxide	0.2 – 5%	1310-73-2	2400 mg/kg (oral – rat)	Not Available
Sodium Hypochlorite	12-14%	7681-52-9	8200 mg/kg (oral – rat)	10.5 mg/kg

SECTION 4 – FIRST AID MEASURES

Eye Contact Flush eyes thoroughly with running water for at least 20 minutes, holding eyelids open to ensure complete flushing. Remove contact lenses, if present, after the first five minutes then continue rinsing the eye. Seek immediate medical attention/advice.

Skin Contact Immediately remove all contaminated clothing. Wash thoroughly with soap and water for at least 20 minutes. Obtain medical attention immediately. Discard or wash contaminated clothing before reuse.

Inhalation Immediately 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/advice.

Ingestion Call a poison control centre immediately. Do not induce vomiting. Rinse mouth with water and then drink one to two glasses of water. Never give anything by mouth to an unconscious or convulsing person. Do not give acidic antidotes such as juice, soft drinks, vinegar, etc. Seek immediate medical attention/advice.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability Non-flammable substance. Non combustible substance.
Flash Point Not applicable. Product does not sustain combustion.
Autoignition Temperature No information available.
Extinguishing Media Treat with surrounding material. Do not use dry chemical extinguishing agents that contain ammonium compounds.
Special Firefighting Procedures/Equipment Firefighters should wear protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe. Use water to cool fire exposed containers.
Explosion Data Not expected to be sensitive to mechanical impact or static discharge.
Hazardous Combustion Products May include and not limited to: chlorine, hydrogen chloride gas, oxygen, sodium oxides.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Restrict area until completion of clean up. Ensure cleanup is conducted by trained personnel only. Do not touch and walk through spilled material. All individuals dealing with clean up should wear appropriate protective equipment including self-contained breathing apparatus. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing vapours, mist or gas.
Environment Precautions	Ensure spilled product does not enter drains, sewers, waterways or confined spaces. If necessary dike ahead of the spill to prevent runoff into drains, sewers or any natural waterway or drinking supply.
Spill Response/Cleanup	Remove all sources of ignition. Ventilate area of release. Stop the spill at source if safe to do so. Contain and absorb spilled liquid with non-combustible inert absorbent material (eg sand). Then place absorbent material into a container for later disposal. Flush with water. Do not flush into surface water or sanitary sewer system. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

SECTION 7 – HANDLING AND STORAGE

Handling	Wear chemically resistant protective equipment during handling. Use only in well ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat, flame and incompatibles. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
Storage Requirements	Keep out of reach of children. Store in a cool, dry, well-ventilated area. Storage area should be clearly identified, free from obstruction and accessible only to trained and authorized personnel. Use polyethylene, polypropylene, FRP or PVC containers. Inspect periodically for damage or leaks. Protect from sunlight. Do not freeze. Store product at -10 to 30°C, away from sunlight or high temperatures. Keep from freezing. Do not store near acids. Always keep in containers made of the same materials as the supplier's container.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	Use only in well ventilated areas. Use local exhaust if mist or spray is generated
Respiratory Protection	Respiratory protection is required if the concentrations exceed 2 mg/m ³ . NIOSH approved respirators are recommended. Seek advice from respiratory protection specialists.
Skin Protection	Impervious gloves
Eye/Face Protection	Chemical splash goggles; full face shield may be necessary
Other Comments	Chemical resistant clothing and boots. An eyewash station and safety shower should be available
General Hygiene	Avoid breathing vapor or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke while using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash thoroughly before reuse.

Exposure Limits	ACGIH TLV		OSHA	
	TWA	STEL	PEL	STEL
Ingredients				
Sodium Hydroxide	2 mg/m ³	N/D	2 mg/m ³	N/D
Sodium Hypochlorite	N/D	2 mg/m ³	2 mg/m ³	N/D

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Odour and Appearance	:	Chlorine odour; clear, pale, yellowish liquid. Translucent.
Odour Threshold	:	Not Available
Specific Gravity (Water = 1)	:	1.10 – 1.18
Vapour Pressure (mmHg)	:	17.5 @ 20°C
Vapour Density (Air = 1)	:	Heavier than air
Evaporation Rate	:	Not Available
Boiling Point	:	96 to 120°C, 205 to 248°F. Decomposes upon heating.
Freezing/Melting Point	:	-20°C, -4°F
pH	:	> 12.5
Coefficient Water/Oil Distribution	:	Not Available
Solubility in Water	:	Miscible / soluble

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity	Stable under recommended storage and handling conditions prescribed. Reacts vigorously with acids. Reacts with amines and ammonia compounds to form explosively unstable compounds. May develop chlorine if mixed with acidic solutions. Contact with some reactive metals may produce flammable hydrogen gas. Product may slowly decompose in sunlight generating small amounts of oxygen. Corrosive to metals.
Conditions for Chemical Instability	Heat, open flame and direct sunlight. Keep away from incompatibles. Keep container tightly closed when not in use. Do not mix with other chemicals.
Hazardous Decomposition Products	May include and not limited to: hydrogen chloride, chlorine gas, oxygen, disodium oxide.
Hazardous Polymerization	Hazardous polymerization cannot occur.
Incompatible Materials	Urea, ammonia, amides, amines, nitrogen containing compounds, combustible materials, metals organic materials, reducing materials, hydrocarbon materials, alcohols, ether. Contact with magnesium, galvanized zinc, tin, chromium, brass and bronze generate explosive hydrogen.

SECTION 11 – TOXICOLOGICAL INFORMATION

Target Organs	: Upper respiratory tract, skin, eyes, lens of cornea and stomach
Skin Contact	: Causes skin burns and skin irritation.
Eye Contact	: Causes skin burns and severe eye damage.
Ingestion	: Harmful if swallowed. May cause severe irritation and corrosive damage to mouth, throat and stomach.
Inhalation	: May cause chemical burns respiratory tract irritation and chemical burns.
Chronic Exposure Effects	: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
Irritancy	: Corrosive
Sensitization	: No data available.
Carcinogenicity	: No evidence of carcinogenic effects.
Teratogenicity	: No information available.
Mutagenicity	: No information available.
Reproductive Effects	: No information available.

SECTION 12 – ECOLOGICAL INFORMATION

General Comments Very toxic to aquatic life with long lasting effects.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal The disposal of the product must be made in an approved sanitary landfill or foundry. Contact your local, provincial or federal environmental agency for specific regulations.

SECTION 14 – TRANSPORT INFORMATION

TDG Shipping Regulations UN 1791, Sodium Hypochlorite Solution, Class 8 (9.2), PG III

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this document contains all the information required by the Controlled Products Regulations. Class E: Corrosive Material. Class C: Oxidizing Material. Class D1B: Materials Causing Immediate/Serious Effects - Toxic Material. Class D-2B: Toxic material Causing other toxic effects.

Domestic Substances List All ingredients are listed on the DSL or are not required to be listed.

Pest Management Read the approved PCPA label prior to using or handling the pest control product. This chemical is a pest control product registered by Health Canada PMRA and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets, Following is the hazard information required on the pest control product label: DANGER. Corrosive for eyes and skin.

Regulatory Agency

SECTION 16 – OTHER INFORMATION

Prepared by: PMC Water Systems Services Inc.
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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.