



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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SAFETY DATA SHEET BIOSPERSE BISO

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 : Biosperse BISO
Product Use : Water treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Methylisothiazoline	1-5%	26172-55-4	457 mg/kg, oral – rat	No Data Available
Methylisothiazolin	0.1-1%	26172-55-4	457 mg/kg, oral – rat	No Data Available
2-bromo-2-nitropropane-1,3-diol	5-10%	52-51-7	No Data Available	No Data Available

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Statement Causes severe skin burns and eye damage. May cause an allergic skin reaction
Avoid breathe dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/ face protection.

Precautionary Statement If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of water. If on skin (or hair): Immediately take off all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a Poison Center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/ container in accordance with local/regional/national/ international regulations.

SECTION 4 – FIRST AID MEASURES

Eye Contact Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.

Skin Contact Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular, or respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Ingestion Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the

exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability	Not Flammable
Flash Point	Not Applicable
Autoignition	Not Applicable
Temperature	
Extinguishing Media	Use an extinguishing agent suitable for the surrounding fire.
Special Firefighting Procedures/Equipment	In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hazardous Combustion Products	Combustion generates toxic fumes of the following: hydrogen chloride, nitrogen oxides, sulfur oxides, carbon dioxide, carbon monoxide, halogenated compounds, metal oxide/oxides
NFPA Ratings	Health 3, Flammability 0, Instability 0
HMIS Ratings:	Health 3, Flammability 0, Reactivity 0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear a NIOSH approved (or equivalent) respirator with organic vapor/acid gas cartridge and a dust/mist filter during spill clean-ups and deactivation of this material. MATERIAL IS CORROSIVE. Protective clothing, including chemical splash goggles, nitrile or butyl rubber full length gloves, rubber apron, or clothing made of nitrile or butyl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of this material. If material comes in contact with the skin during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water
Environment Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Spill Response/Cleanup	Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations

SECTION 7 – HANDLING AND STORAGE

Handling	Corrosive material. Avoid contact with eyes, skin and clothing. Do not ingest. Do not inhale vapour or mist. Use appropriate personal protective equipment. Use with adequate ventilation. Handle in accordance with good industrial hygiene and safety practices. Keep containers closed when not in use. Empty product containers may contain residue. Follow label warnings even after container is emptied. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
Storage Requirements	Store in a cool, dry, well-ventilated area, away from heat and ignition sources. Store in original tightly closed container. Place away from incompatible materials.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	If use generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Respiratory Protection	When respiratory protection is required for certain operations, use a NIOSH approved air-purifying respirator.
Skin Protection	Butyl-rubber or nitrile rubber gloves. PVC gloves >1 mm thickness. Wear personal protective equipment to prevent skin contact. Chemical-resistant gloves should be worn whenever this material is handled. Rinse and remove gloves immediately after use. Wash hands with soap and water.
Eye/Face Protection	Chemical splash goggles and face shield.
Other Comments	An eyewash station and safety shower must be available

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Odour and Appearance	:	Pungent; pale yellow
Odour Threshold	:	Not Available
Specific Gravity (Water = 1)	:	1.02
Vapour Pressure (mmHg)	:	Not Available
Vapour Density (Air = 1)	:	Not Available
Evaporation Rate	:	Not Available
Boiling Point	:	100° C, 212° F
Freezing/Melting Point	:	No Data Available
pH	:	2.0 to 4.0
Coefficient Water/Oil Distribution	:	Not Applicable
Solubility in Water	:	Completely soluble

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity	Stable. No specific test data related to reactivity available for this product or its ingredients.
Conditions for Instability	No specific data.
Incompatible Materials	Oxidizing agents. Amines. Reducing agents. Mercaptans.
Hazardous Decomposition Products	Nitrogen oxides, sulphur oxides, hydrogen chloride
Hazardous Polymerization	Hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Skin Contact	:	Causes severe burns. May cause an allergic skin reaction. Adverse symptoms may include pain or irritation, redness and blistering may occur.
Eye Contact	:	Causes serious eye damage. Adverse symptoms may include pain, watering and redness.
Ingestion	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards. Adverse symptoms may include stomach pains
Chronic Exposure Effects	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Sensitization	:	Has caused allergic skin reactions when tested in guinea pigs. Not Available
Carcinogenicity	:	Did not cause cancer in laboratory animals.
Teratogenicity	:	Did not show teratogenic effects in animal experiments.
Mutagenicity	:	Not mutagenic when tested in bacterial or mammalian systems.
Reproductive Effects	:	In animal studies, did not interfere with reproduction.

SECTION 12 – ECOLOGICAL INFORMATION

General Comments	Toxic to aquatic life. May increase pH of waterways and adversely affect aquatic life.
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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.
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SECTION 14 – TRANSPORT INFORMATION

TDG Shipping Regulations	UN 3265, Corrosive Liquid, Acidic, Organic, N.O.S. (5-Chloro-2-methyl-4-isothiazolin-3-one, 2-Methyl-4-isothiazolin-3-one), Class 8 Corrosive, PG II
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SECTION 15 – REGULATORY INFORMATION

WHMIS Classification	This product is a pest control product registered by Health Canada Pest Management Regulatory Agency.
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: August 2, 2018

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.