SAFETY DATA SHEET

BIOTROL BT

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: BIOTROL BT
SDS Number: 0462
Product Code: BI0004
Revision Date: 2/4/2020
Version: 1
Product Use: Cooling Water Biocide

Supplier Details: U.S. Water, a Kurita company
12270 43rd Street NE
St. Michael, MN 55376

Contact: Non-Emergency#: 866-663-7633
Email: sds@uswaterservices.com
Web: www.uswaterservices.com

EMERGENCY RESPONSE: (ChemTel)
US & Canada: 800-255-3924
International: +01-813-248-0585

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 4 Oral
Health, Skin corrosion/irritation, 1 B
Health, Skin sensitization, 1 B
Environmental, Hazards to the aquatic environment - Chronic, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:

GHS Hazard Statements:

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H410 - Very toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor/…
P311 - Call a POISON CENTER/doctor
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container to accordance with national and international regulations.
P405 - Store locked up.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Ingredients:

CAS#	%	Chemical Name:
32718-18-6	96-99.5%	Bromochloro-5,5-dimethylimidazolidine-2,4-dione

4 FIRST AID MEASURES

Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. Call 911 or emergency medical service.

Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Immediately call a POISON CENTER or doctor/physician.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Most important symptoms & effects (acute & delayed)**:** No data available.

Indication of need for immediate medical attention: No data available

Special treatment needs: No specific antidote. Treat symptomatically and supportively. Probable mucosal damage may contraindicate the use of gastric lavage.

5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Dry chemical or CO2. In case of exothermic decomposition and appearance of smoke, water should be used to suppress it.

Unsuitable: No information available

Hazardous combustion products: Dusts or fumes may form explosive mixtures in air. Forms explosive mixtures with combustible, organic or other easily oxidizable materials.

Unusual Fire or Explosion Hazards: None known

Special protective equipment/precautions: Wear self-contained breathing apparatus (SCBA) to prevent contact

with thermal decomposition products.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective equipment, emergency procedures: Wear appropriate protective clothing to minimize contact with skin. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Environmental Precautions: Avoid release to the environment.
Spill/Leak procedures: Evacuate area. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Ventilate the area. Wash area with soap and water.
Regulatory Requirements: Dispose of recovered material in accordance with all applicable state and federal regulations.

7 HANDLING AND STORAGE

Handling Precautions: Avoid prolonged or repeated contact with eyes, skin, or clothing. Wash thoroughly after handling. Avoid breathing in dust from product. Use with adequate ventilation. Keep containers closed when not in use.

Storage Requirements: Keep away from sources of ignition. Store at temperatures not exceeding 50°C/120°F. Keep container tightly closed. Store in a cool dry place. Store away from incompatible material.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment: Respiratory Equipment: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Eye Protection: Chemical safety goggles.
Protective Gloves: Impervious gloves.
Other Protective Clothing: Lab coat and/or apron.
Work/Hygienic/Maintenance Practices: Wash hands before breaks and immediately after handling the product.

Exposure Limits:
OSHA (TWA): Not Established
ACGIH (TWA): Not Established

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to Off-White, Tablet		
Physical State:	Solid	**Odor:**	Faint halogenous odor
Spec Grav./Density:	1.8 - 2.0	**Solubility:**	0.22g/100mL at 25°C / 77°F
Vapor Pressure:	9.35x10(-3) PA at 25°C / 77°F	**Percent Volatile:**	No data available
Evap. Rate:	No data available	**Freezing/Melting Pt.:**	No data available
Decomp Temp:	>160°C / 320°F	**Flash Point:**	No data available
		Vapor Density:	No data available
		Auto-Ignition Temp:	No data available
		UFL/LFL:	No data available

10 STABILITY AND REACTIVITY

Reactivity: Oxidizing agents, Bases, combustible materials.
Chemical Stability: Stable at normal ambient temperatures. Avoid the following conditions: Moisture.
Conditions to Avoid: Heating to decomposition. Moisture.
Materials to Avoid: Oxidizing agents, Bases.
Hazardous Decomposition: Nitrogen oxides, hydrogen chloride. hydrogen bromide. chlorine. Carbon oxides.
Hazardous Polymerization: Product will not undergo polymerization.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:
Oral LD50 (Rat): 929.0 mg/kg
Behavioral: Somnolence (general depressed activity)
Gastrointestinal: Other changes.
Inhalation LC50 (Rat): 1.100 mg/kg (4 hr)
Skin and Appendages: Other: Hair
Skin Corrosion/Irritation: No data avaible
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Specific target organ toxicity (single exposure): No data available
Specific target organ toxicity (repeated exposure): No data available
Aspiration hazard: No data available
Carcinogenicity: No carcinogenic effects are known for the components of this product
Germ Cell Mutagenicity: No mutagenic effects are known for the components of this product
Teratogenicity: No teratogenic effects are known for the components of this product

12 ECOLOGICAL INFORMATION

Aquatic Toxicity:
Rainbow Trout (Oncorhynchus mykiss) LC50(96 hr): 0.400 mg/L
Result: Age Effects
Water Flea (Daphnia magna) LC50(48 hr): 0.750 mg/L
Result: Age Effects

Elimination (persistency & degradability): No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: No data available

13 DISPOSAL CONSIDERATIONS

RCRA: It is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

Disposal: Biocide or Pesticide wastes are acutely hazardous. Improper disposal or excess product or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Biocide/Pesticide or Environmental Control Agency, or the Hazardous Waste representative at your nearest EPA Regulation Office for guidance.

14 TRANSPORT INFORMATION

UN3085, Oxidizing solid, corrosive, n.o.s., (Bromo-Chloro-5,5-Dimethylhydantoin), 5.1(8), PG III

15 REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[96-99.5%] 2,4-Imidazolidinedione, bromochloro-5,5-dimethyl (32718-18-6) TSCA

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

TSCA = Toxic Substances Control Act

EPA / CERCLA / SARA TITLE III:
CERCLA List: This product does not contain any CERCLA listed hazardous substances.
Toxic Chemical List (SARA 313): This product does not contain any chemicals subject to routine annual toxic chemical release reporting.
Extremely Hazardous Substance (SARA 302/304): This product does not contain any extremely hazardous substances subject to emergency planning requirements.
SARA 312: Acute, Chronic
RCRA: No data available

US Regulatory information:
Primary EPA Registration # : 88714-4
This product is subject to registration under FIFRA.
All ingredients are reported in the EPA TSCA Inventory.

16 OTHER INFORMATION

Author: U.S. Water, a Kurita company

Revision Notes: Updated to GHS format

Disclaimer:
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