



**PROFESSIONAL WATER
TECHNOLOGIES, Inc.**

High-Performance Reverse Osmosis Chemicals

1048 La Mirada Court, Vista, CA 92081

ph: (760)639-4400, (800)914-9072, fax: (760)639-4439

Internet: <http://www.PWTInc.com>, E-mail: Support@PWTInc.com

BIOGUARD ISO/SC™ MSDS

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Version 12.17.07

Section 01: Chemical Product Identification

Domestic Trade Name: BioGuard ISO/SC™

Export Trade Name: BioGuard ISO/SC™

Section 02: Information on Hazardous Ingredients

DOT Shipping Name: Corrosive Liquid (Acidic Organic), N.O.S.

DOT Hazard Classification: 8 (corrosive)

PTW Product Name: BioGuard ISO/SC™

Contains a 1.5% mixture of 5-Chloro-2-Methyl-4-isothiazolin-3-one (CAS No. 26172-55-4) and 2-Methyl-4-isothiazolin-3-one (CAS No. 2682-20-4).

Section 03: Hazards Identification:

Health Hazards:

Inhalation: Exposure to Spray May Cause Irritation to the Mucous Membranes and Respiratory System

Skin Irritation: Causes Mild Irritation

Sensitizer: Not a Sensitizer

DOT Corrosive: Not Applicable

Primary Route of Exposure: Skin Contact

Medical Conditions Aggravated by Exposure: May Aggravate Existing Respiratory and Skin Ailments

Other Toxicity:

No Evidence of Carcinogenic Activity

Acute Oral LD(50): 3875mg/Kg (rat)

Acute Dermal LD(50): >5000 mg/kg (rat)

Primary Skin Irritation Index: 1.4 Slightly Irritant (Draize Test – rabbit)

Primary Eye Irritation: Positive (rabbit)

Section 04: First Aid Measures

First Aid For Ingestion: Do Not Induce Vomiting. Give Large Amounts of Milk and Water. Call A Physician Immediately.

First Aid Inhalation: Remove to Fresh Air. In Case of Shortness of Breath Call A Physician Immediately.

First Aid Eye Contact: Immediately Flush Eyes with Plenty of Water For At Least 30 Minutes. Call Physician Immediately.

First Aid Skin Contact: Wash After Exposure With Cold Water For At Least 15 Minutes. Use Alkaline Soap If Available.

Section 05: Fire Fighting Measures

Autoignition Temp: N/A

Flammable Limits: LEL (Lower Explosive Limits) – N/A

Fire Fighting Media: Use Media Appropriate to Primary Cause of Fire

Special Fire Fighting Procedures: None Known

Fire/Explosion Hazards: None Known

NFPA Hazard Codes – Health/Flammability/Reactivity; 1,0,0

HMIS Hazard Codes – Health/Flammability/Reactivity; 1,0,0

MSDS

Material Safety Data Sheet

December 17, 2007



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Section 06: Accidental Release Measures

Spill/Leak Clean-Up Procedures:

Land Spill: Wearing recommended protective clothing and equipment, dike spill with soil, sand, or compatible commercial absorbent. Remove remaining liquid with a pump, vacuum truck, or absorb liquid in sand or commercial absorbent. Place waste in approved containers for disposal. Dispose waste according to Federal, State, and local regulations.

Water Spill: Wear protective clothing and equipment. Stop flow. Dike contaminated water and remove for disposal and/or treatment. Notify proper authorities and all downstream users if possible. Dispose of with Solid Waste according to Federal, State, and Local Regulations.

Dispose of Solid Waste According to Federal, State, and Local Regulations. Flush Area with Water.

***CAUTION:** A Wet Floor will be Slippery

Section 07: Handling and Storage

Precautionary Measures: Avoid Breathing Spray. Do Not Store in Metal Unlined Containers.

Disposal Method: Dispose of According to Federal, State and Local Regulations. BioGuard ISO/SC™ is biologically degradable when diluted below the minimum inhibitory concentration.

RCRA Class: Not Regulated

Section 08: Exposure Control/Personal Protection

Ventilation: Use with Normal Adequate Ventilation

Respiratory Protection: Masks Where Spray Cannot Be Avoided

Eye Protection: Full Face Shield

Skin Protection: Use OSHA Approved Neoprene Gloves, Boots, and Apron

Section 09: Physical and Chemical Properties

Boiling Point: Approximately 100 °C

Vapor Pressure: Same as Water

Vapor Density: Same as Water

Water Solubility: Complete

Melting/Freezing Point: Approximately 0 °C

Appearance: Clear to light green

Density: Approximately 8.3 lbs. / Gallon

Specific Gravity: 1.0 – 1.2 g/ml

Percentage Volatile: 82% Maximum as Water

Evaporation Rate: Same as Water

pH of Solution: 3 – 6.5

Odor: None

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Section 10: Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not Occur

Conditions to Avoid: None Known

Incompatible Materials: Strong Oxidizing or Reducing Agents

Hazardous Decomposition Products: Not A Fire or Explosion Hazard; However, In A Fire Situation This Product Will Emit Toxic Gases and Form Acids.

Other: Corrosive to metals

Section 11: Toxicological Information

Acute Toxicity:

Mutagenicity: AMES Salmonella Mutagenicity Testing exhibits no evidence of mutagen presence.

Oral Toxicity: Rat LD50>100,000 mg/kg

Dermal Toxicity: Not absorbed topically

Inhalation Toxicity: None known

Skin Irritation: Rabbit; No irritation observed

Sensitizer: No human repeat insult patch test; Not a sensitizer

Section 12: Ecological Information

Environmental Toxicity:

Acute Fish 96 Hr LC50, Flathead minnow: 750 mg/L, NOEC/LOEC 500/1000

Acute Daphnia 48 Hr EC50: 743 mg/L, NOEC/LOEC 500/1000

Acute Purple sea urchin 40min. IC25 mg/L: >10, NOEC/LOEC 10/>10

Section 13: Disposal

Incinerate liquid and contaminated solids in accordance with Federal, State, and local regulations and permits.

Section 14: Transport Information

Domestic Data

DOT Shipping Name: BioGuard ISO/SC™ (Corrosive Liquid (Acidic Organic), N.O.S.)

DOT Hazard Class: 8

PG III

UN Number: UN3265

ERG 154

Export Data

Export Shipping Name: BioGuard ISO/SC™ (Corrosive Liquid (Acidic Organic), N.O.S.)

Export Hazard Class: 8

PG III

Hazardous Ingredients: contains 5-chloro-2-methyl-4-isothiazolin-3-one

UN Number: UN3265

ERG 154



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Section 15: Regulatory Information

SARA Section 313 Notification (40CFR 372)

This Product Does Not Contain Toxic Chemicals Subject to the Reporting Requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Section 16: Other Information

HMIS Hazard Codes – Health/Flammability/Reactivity; 1,0,0

NFPA Hazard Codes - Health/Flammability/Reactivity; 1,0,0

**For Chemical Emergency
Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night**

**DOMESTIC NORTH AMERICA 800-424-9300
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)**

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