



Lot Number:

Material ID:

Net Weight:

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Made in

# SPECTRUS<sup>®</sup> OX103

For use as a Disinfectant, Sanitizer, Bactericide, Fungicide, Algicide, and for Control of Microbial Slimes in Industrial Processes and Water Systems such as: Recirculating Cooling Water Systems, Once-Through Cooling Water Systems, Wastewater Treatment Systems, Brewery Pasteurizers, Air Conditioners, Dehumidifiers, Evaporative Coolers, Paper and Paperboard Process Water, and Water Fountains/Reflecting Ponds.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### DANGER

**CORROSIVE.** Causes irreversible eye damage and skin burns. Harmful if swallowed. Irritating to nose and throat. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles or face shield or safety glasses). Wear protective clothing and rubber gloves when handling this product. Avoid breathing dust and fumes. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

ACTIVE INGREDIENT:  
1-Bromo-3-chloro-5,5-dimethylhydantoin . . . 96.0%  
OTHER INGREDIENTS: . . . . . 4.0%  
TOTAL . . . . . 100.0%

CONTENTS: TABLETS  
Each tablet weighs approximately 20 grams.

EPA REGISTRATION NUMBER: 83451-4-3876

EPA ESTABLISHMENT NUMBER: 87262-WV-1

KEEP OUT OF REACH OF CHILDREN

### DANGER

**PHYSICAL AND CHEMICAL HAZARDS**  
**STRONG OXIDIZING AGENT.** Do NOT mix with other chemicals. Mix only with water. Use clean, dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volumes of water.

## FIRST AID

If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If inhaled	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
If swallowed	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

HOT LINE NUMBER: 1-800-877-1940

Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency call 1-800-877-1940

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate gastric lavage.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE:** Keep product dry and store in a cool, dry, well-ventilated area away from heat or open flame. Store in original container.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** **SUPER SACK:** Completely empty bag into application equipment. Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. **FIBER DRUM:** Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **PAIL:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**EMERGENCY HANDLING:** In case of contamination or decomposition do not reseal container. If possible, isolate container in open and well-ventilated area. Flood with large volumes of water. Dispose of contaminated material in an approved landfill area.

Manufactured for: **VEOLIA WTS USA, Inc., 3600 Horizon Blvd., Trevose, PA, 19053**

**Business Phone: 215-355-3300 • Emergency Phone: 800-877-1940**



Made in

# SPECTRUS<sup>®</sup> OX103

FOR USE AS A DISINFECTANT, SANITIZER, BACTERICIDE, FUNGICIDE, ALGICIDE, AND FOR CONTROL OF MICROBIAL SLIMES IN INDUSTRIAL PROCESSES AND WATER SYSTEMS SUCH AS: RECIRCULATING COOLING WATER SYSTEMS, ONCE-THROUGH COOLING WATER SYSTEMS, WASTEWATER TREATMENT SYSTEMS, BREWERY PASTEURIZERS, AIR CONDITIONERS, DEHUMIDIFIERS, EVAPORATIVE COOLERS, PAPER AND PAPERBOARD PROCESS WATER, AND WATER FOUNTAINS/REFLECTING PONDS.

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**RECIRCULATING COOLING WATER SYSTEMS:** When used as directed, this product effectively controls algal, bacterial, and fungal slimes in commercial and industrial cooling towers, evaporative condensers, influent water systems such as flow-through filters, cooling ponds, canals, and lagoons; heat exchange water systems; industrial water scrubbing systems; brewery pasteurizers; and industrial air washing systems equipped with mist eliminators.

**ONCE-THROUGH COOLING WATER SYSTEMS:** When used as directed, this product effectively controls algal, bacterial and fungal slimes in once-through fresh or salt water cooling systems; cooling ponds, canals, and lagoons. Treat cooling water with this product at the system intake or other critical areas, where mixing is uniform.

**EVAPORATIVE COOLER:** When used as directed, this product effectively controls algal, bacterial and fungal slimes in evaporative coolers.

**PASTEURIZER, CAN WARMER, CANNERY, RETORT WATER SYSTEMS:** When used as directed, this product controls algal, bacterial, and fungal slime in cannery cooling canal water, cannery package warmers, cannery pasteurizer water, and retort water.

**DOSAGE RATES - INITIAL DOSE:** When the system is noticeably fouled, add 0.2 to 0.6 lbs/1000 gallons (0.24 to 0.72 kg/10,000 L) of water contained in the system. Repeat initial dosage until 1 to 3 ppm (mg/L) bromine residual is established for at least 4 hours.

**SUBSEQUENT DOSE:** When microbial control is evident, add 0.1 to 0.3 lb./1000 gallons (0.12 to 0.36 kg/10,000 L) of water contained in the system. Repeat as needed to maintain 1 to 3 ppm (mg/L) bromine residual for at least 4 hours.

**COMMERCIAL AIR CONDITIONER AND DEHUMIDIFIER BASINS OR DRIP PANS:** When used as directed, this product effectively controls microbial slimes in areas where water collects.

**DOSAGE RATES:** Place this product in the basin or drip pan close to the outlet drain. Use one or more tablets as necessary to maintain the cleanliness of the system. The number of tablets needed will vary with temperature, humidity and condensate volume.

**WASTEWATER TREATMENT SYSTEMS:** When used as directed, this product effectively controls algal, bacterial and fungal slimes and offers rapid disinfection of primary, secondary and tertiary wastewater treatment systems.

**DOSAGE RATES:** Add 0.1 to 0.6 lb./1000 gallons (0.12 to 0.72 kg/10,000 L) of water treated to maintain a 0.5 to 5.0 ppm (mg/L) bromine residual at the injection point in the disinfection contact chamber. Adjust this product's dosage to achieve disinfection and minimize the halogen concentration at the exit of the contact chamber. Do not use treated wastewater to irrigate crops.

#### WATER FOUNTAINS/REFLECTING PONDS:

This product, when used as directed, is effective as a water feature sanitizer and disinfectant.

Ensure all equipment is working properly. Backwash the filter system (if present) following manufacturer's directions. Adjust pH to between 7.2 - 7.6. When using other products as outlined in directions for this product, always follow directions on those products.

A bromine or chlorine residual of 1 - 2 ppm must be first established in the water. If the residual is established with this product in a brominator, use the brominator at the highest feed rate following manufacturer's recommendations. When the bromine residual reaches 1 - 2 ppm adjust the feeder accordingly. To maintain bromine residual, adjust the brominator feed rate to assure a constant treatment level of 1 - 3 ppm. Regular use of a test kit is necessary to maintain a bromine residual in the water.

**PULP AND PAPER MILLS:** When used as directed this product effectively controls algal, bacterial, and fungal slime in pulp and paper mill fresh and sea water influent water systems, cooling water systems, wastewater treatment systems, service water systems, white water systems and other process water.

This product is intended for use as a slimeicide for the process water used in the manufacture of paper and paperboard products. Do not exceed 1,000 grams (2.2 lbs.) of this product per dry metric ton of fiber when this product is used in the manufacture of paper and paperboard products that contact food. Treat water at critical areas in the system process where mixing of the product with influent will be uniform. The frequency and duration of the treatment will depend upon the severity of the problem. Badly fouled process systems must be cleaned before initial treatment.

#### PRODUCT APPLICATION

**TREATMENT BY SYSTEM VOLUME:** When a system is noticeably fouled, add 0.1 to 1.0 lb. of this product to 1,000 gallons or 12 to 120 ppm (mg/L) of water in the system. When biological control is evident, add 0.1 to 0.75 lb. of this product to 1,000 gallons or 12 to 90 ppm (mg/L) of water in the system.

**TREATMENT BY RESIDUAL METHOD:** Add sufficient amount of this product to maintain a measured residual up to 5 ppm (mg/L) as bromine. Once biological control is evident, the use of this product normally can be reduced to something less than 1 ppm as bromine. To calculate the appropriate level of this product, estimate the paper mill's daily production, then add, over a 24 hour period, up to 1,000 grams (2.2 lbs.) of this product per dry metric ton of dry fiber. Test for bromine to verify the level of 5 ppm (mg/L) is not being exceeded.

Treatment levels can be measured with test kits for either bromine or chlorine; Tests should be made immediately after drawing water samples from the system. Use test kits according to directions: 1. When a bromine test kit is used, results can be read directly as ppm bromine. 2. When a chlorine test kit is used, results can be expressed in terms of bromine by multiplying chlorine values by the conversion factor 2.25.

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