SPECTRUS® OX103

For use as a Disinfectant, Sanitizer, Bactericide, Fungicide, Algaicide, and for Control of Microbial Stains 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.

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 any other product. Such use may cause a violent reaction leading to fire or explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or control center or doctor.

PHYSICAL AND CHEMICAL HAZARDS
STRENGTH 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 materials, 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.

PHYSICAL PROPERTIES

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 or disposal.

PESTICIDE STORAGE: Keep pesticide 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 wastes 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 Federal Agency at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: SUPER SACK: Completely empty bag into application equipment. Do not reuse or refill this container. Offer for recycling, if available. FIBER DRUM: Completely empty drum by shaking and tipping sides and bottom to loosen clamping peripherals. Empty drum into application equipment. 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 ⅓ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drop. Repeat this procedure two or 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.

GE Betz, Inc., 4636 Somerton Road, Trevose, PA, 19053
Business Phone: 215-355-3300 • Emergency Phone: 800-877-1940
SPECTRUS® 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. Read entire label and use strictly in accordance with precautionary statements and directions.

RECONDITIONING COOLING WATER SYSTEMS: When used as directed, this product effectively controls algal, bacterial, and fungal slime 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 slime in once-through fresh or salt water cooling systems; cooling ponds, canals, and lagoons. Treatment of 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 slime in evaporative coolers.

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

DOSEAGE RATES - INITIAL DOSE: When the system is noticeably fouled, add 0.2 to 0.6 lb/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 slime in areas where water collects.

DOSEAGE RATES: Place this product in the basin or drip pan close to the outlet drain. When more than 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 slime and offers rapid disinfection of primary, secondary and tertiary wastewater treatment systems.

DOSEAGE RATES: Add 0.1 to 0.5 lb./1000 gallons (0.12 to 0.72 kg/10,000 L) of water contained 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 sterilicide 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 of the system may vary according to 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 fiber. Test 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.

Lot Number: GE Betz, Inc., 4636 Somerton Road, Trevose, PA, 19053
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