**SPECTRUS® OX909**

**FOR USE AS A FUMIGANT ALGOCIDE, SLIMECIDE AND MICROBICIDE IN RECOILURATING COOLING AND PROCESS WATER SYSTEMS, HEAT TRANSFER SYSTEMS, AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS, CONTAINERS WITHIN WATER SYSTEMS, PULP AND PAPER MILLS, AND WATER TREATMENT SYSTEMS, CONTROLS BIFILM DISPOSITS FROM PUMPS, FLOWMETERS, HEAT EXCHANGERS, AND FILTERS ASSOCIATED WITH INDUSTRIAL WATER TREATMENT SYSTEMS**

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear protective eyewear (chemical goggles or face shield), protective clothing and rubber gloves resistant to chemical permeation when handling this product. Harmful if swallowed, or absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing separately 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 public 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 sewage treatment plant authority. For guidance, consult your State Water Board or Regional Office of the EPA. Apply this pesticide only on the label.
**SPECTRUS**

**OX909**

**FOR USE AS A FUNGICIDE, ALGICIDE, SLIMICIDE AND MICROBICIDE IN RECIRCULATING COOLING AND PROCESS WATER SYSTEMS, HEAT TRANSFER SYSTEMS, AIR WASHERS AND INDUSTRIAL SCOURING SYSTEMS, CONTAINERIZED PONDS AND DECORATIVE FOUNTAINS, INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS, PULP AND PAPER MILLS, AND WASTEWATER SYSTEMS. CONTROLS BIOFILM DEPOSITS FROM PUMPS, PIPEWORK, HEAT EXCHANGERS, AND FILTERS ASSOCIATED WITH INDUSTRIAL WATER TREATMENT SYSTEMS.**

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

When used as directed, SPECTRUS OX909 effectively controls bacteria, fungi, algae and slime in commercial and industrial water systems. SPECTRUS OX909 can also be used to control biofilm deposits from pumps, pipework, heat exchangers, and filters associated with industrial water treatment systems.

SPECTRUS OX909 may be added at system inlet water or other locations in the system at a point of uniform mixing where the treated water will be circulated or mixed throughout the system.

Badly fouled systems should be cleaned before treatment begins. The product may be applied to the system either continuously or intermittently (slug dose) or as needed to obtain the recommended total bromine level. The frequency of feeding and dosage rate will depend upon the severity of the problem.

**INITIAL DOSES:** When the system is noticeably fouled, apply sufficient SPECTRUS OX909 to achieve a total bromine level of 4 - 10 ppm or as needed to maintain control. Applying 4 fluid ounces to 100 gallons of water yields a maximum of 6.4 ppm of total bromine.

**SUBSEQUENT DOSES:** When microbial control is evident, apply sufficient SPECTRUS OX909 to achieve a total bromine level of 4 - 10 ppm or as needed to maintain control. Treatment levels of SPECTRUS OX909 can best 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.

When a bromine test kit is used, results can be read directly as ppm bromine. 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.

**RECIRCULATING COOLING AND PROCESS WATER SYSTEMS:**

When used as directed, SPECTRUS OX909 effectively controls bacteria, fungi, algae and slime in commercial and industrial cooling towers; heat exchange water towers, evaporative condensers, utility plant cooling systems, industrial water scrubbing systems, and influent systems such as flow through filters, lagoons, etc.

**HEAT TRANSFER SYSTEMS:**

For control of bacteria and fungi in heat transfer systems such as hydrostatic sterilizers and retorts, pasteurizers and warmers, and batch and continuous cookers.

**AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS:**

Use only in industrial air washer systems that have mist-eliminating components. For control of microorganisms in industrial air washer or scrubbing systems add sufficient SPECTRUS OX909 to the air washer sump or chill water.

The SPECTRUS OX909 should be applied to achieve a total bromine level of 4 - 10 ppm or as needed to achieve control. Sampling of the treated systems should be at the bleed-off point and total bromine residuals determined with an appropriate test kit. Not for use in air washers and industrial scrubbing systems in the State of California.

**CONTAINERIZED PONDS AND DECORATIVE FOUNTAINS:**

When used as directed, SPECTRUS OX909 may be applied at the pond or fountain inlet or at a location that permits complete diffusion into the water at maximum retention time before reaching the outlet. Sufficient SPECTRUS OX909 should be fed to maintain a total bromine level of 4 - 10 ppm in all parts of the pond or fountain, or as needed to maintain control.

**INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS:**

When used as directed, SPECTRUS OX909 effectively controls bacteria, fungi, algae and slime in once-through and closed-cycle fresh and sea water cooling systems. Apply SPECTRUS OX909 to the system inlet water or before any other contaminated area in the system. Not for use in industrial one-through cooling water systems in the State of California.

**PULP AND PAPER MILLS:**

When used as directed, SPECTRUS OX909 effectively controls algae, bacterial, and fungal slime in pulp and paper mill fresh and sea water influent water systems, cooling water systems, wastewater treatment systems, nonpotable water systems, whitewater systems and other process water. The product may be applied to the system either continuously or intermittently (slug dose) or as needed to obtain the recommended total bromine level.

**DOSE RATES:** Add sufficient SPECTRUS OX909 to achieve a residual bromine level of 4 - 10 ppm or as needed to maintain control of the system. Feed SPECTRUS OX909 directly into the water to be treated. Be sure rapid mixing of the treated water, and SPECTRUS OX909 is achieved. Pump manufacturers can recommend the appropriate materials of construction and capacity for a pump to feed SPECTRUS OX909. Not for use in pulp and paper mills in the State of California.

**WASTEWATER SYSTEMS:**

When used as directed, SPECTRUS OX909 controls microorganisms in wastewater systems. The quantity of SPECTRUS OX909 required varies with the degree of fouling. Add sufficient SPECTRUS OX909 to achieve residual bromine levels of 3 - 10 ppm, or as needed to maintain control, when measured approximately 5 minutes after treatment. Applying 4 fluid ounces to 1000 gallons of water yields a maximum of 6.4 ppm of total bromine. Higher dosages may be necessary depending upon the system. The product may be applied to the system either continuously or intermittently (slug dose) or as needed to obtain the recommended total bromine level.

Depending on the construction of the wastewater system, SPECTRUS OX909 may be effectively added to one or more different locations in the system. Frequently the compound is added to wastewater receiving secondary treatment at a contact tank preceding the effluent discharge or at the influent of the final clarifier. Not for use in wastewater in the State of California.