SPECTRUS® NX1106
INDUSTRIAL BICIDE FOR USE IN RECIRCULATING WATER COOLING TOWERS AND AIR WASHER SYSTEMS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER PELIGRO
DANGER. Corrosive. Causes irreversible eye damage or skin burns. May be fatal if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Remove contaminated clothing and wash clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT
Coverall over long-sleeved shirt and long pants. Chemical-resistant apron. Socks and chemical resistant footwear. Goggles and face shield. Chemical-resistant gloves (such as rubber, or made of any waterproof material).

USER SAFETY REQUIREMENTS
Do not apply this product in a way that will contact workers or other persons. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS
Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outsides of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

ENVIRONMENTAL HAZARDS
This chemical is toxic to terrestrial and aquatic plants, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of the 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. They do not apply directly to water or to areas where surface water is present or interstitial areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

PHYSICAL OR CHEMICAL HAZARDS
This product is corrosive to mild steel.

DIRECTIONS FOR USE: it is a violation of Federal law to use this product in a manner inconsistent with its labeling. For product use see Panel 2.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

PESTICIDE STORAGE: Keep container tightly closed. Protect from freezing. Store in a dry place. Do not store at elevated temperatures. Do not store or transport in unlined metal containers.

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

CONTAINER DISPOSAL - METAL & PLASTIC CONTAINERS: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerator, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. FIBER DRUMS WITH LINERS: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Then dispose of liner and drum in a sanitary landfill or incinerate if allowed by state and local authorities. Do not reuse empty drum or liner.

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DIRECTIONS FOR USE: It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons.

INDUSTRIAL RECIRCULATING COOLING WATER AND NON-FOOD CONTACT PROCESS WATER SYSTEMS RELATED TO NON-WOVEN TEXTILE PROCESSING
This product aids in the control of bacteria, algae and fungi in evaporative condenser, heat exchange water systems, commercial and industrial cooling towers, industrial water scrubbing systems, brewery pasteurizers and non woven textile process water. Add this product to the tower basin, distribution box or some other point to insure uniform mixing. BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

INITIAL DOSE: When the system is noticeably fouled, apply this product at the rate of 1.28 to 7.46 pounds (19 to 113 fluid ounces or 148 to 883 ppm) per 1000 gallons of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add this product at the rate of 0.3 to 1.86 pounds (4.5 to 28 fluid ounces or 35 to 219 ppm) per 1000 gallons of water in the system weekly or as needed to maintain control.

AIR WASHER SYSTEMS
For use only in industrial air washing systems that maintain effective mist eliminating components. To control bacteria, fungi and algae which cause fouling in industrial air washer systems, add this product to the air washer sump or chill water sump to insure uniform mixing, at the rate of 0.3 to 7.46 pounds (4.5 to 113 fluid ounces or 35 to 883 ppm) per 1000 gallons of water in the system depending upon the severity of contamination. BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

INTERMITTENT ORSlug - METHOD - INITIAL DOSE: When the system is noticeably fouled, apply this product at the rate of 1.28 to 7.46 pounds (19 to 113 fluid ounces or 148 to 883 ppm) per 1000 gallons of water in the system. Repeat until control is achieved. SUBSEQUENT DOSE: When microbial control is evident, add this product at the rate of 0.3 to 1.86 pounds (4.5 to 28 fluid ounces or 35 to 219 ppm) per 1000 gallons of water in the system weekly or as needed to maintain control.

CONTINUOUS FEED METHOD - INITIAL DOSE: When the system is noticeably fouled, apply this product at the rate of 1.28 to 7.46 pounds (19 to 113 fluid ounces or 148 to 883 ppm) per 1000 gallons of water in the system. SUBSEQUENT DOSE: Maintain this treatment level by adding a continuous feed of this product at the rate of 0.3 to 1.86 pounds (4.5 to 28 fluid ounces or 35 to 219 ppm) per 1000 gallons of blowdown (or water loss) from the system.

METAL - WORKING FLUIDS
This product is recommended for the control of bacteria and fungi in soluble and emulsifiable-type aqueous metal-working fluids, such as emulsified petroleum oils, and formulations containing alcoholic fatty acid, sulfonated red oil or naphthalene sulfonate. These fluids are usually prepared by diluting the product concentrates 1:40 to 1:50 with water.

For the maintenance of a non-fouled system, use this product at 32 fluid ounces per 1000 gallons of emulsion (2 pounds) every 4 weeks or 32 to 154 fluid ounces per 1000 gallons of emulsion (2 to 10 pounds) every 8 to 12 weeks. For a noticeably fouled system, use an initial dose of 20 to 154 fluid ounces per 1000 gallons emulsion (4 to 10 pounds) to be followed by subsequent maintenance dosages depending on the treatment interval noted above. A higher dosage range for increased frequency of treatment may be required depending upon the rate of dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

The preservative should be dispersed into the use-dilution of the metal-working fluid using a metering pump.

HYDRAULIC FLUIDS
This product is recommended as a preservative for use in the manufacture and use of high water-based hydraulic fluids and invert emulsion hydraulic fluids typically prepared by emulsifying 40% by volume of water in 60% by volume of mineral oil using an oil-soluble emulsifying agent.

For the maintenance of a non-fouled system, use this product at 110 to 135 fluid ounces (7.2 to 8.8 pounds) per 1000 gallons fluid every 8 weeks. For a noticeably fouled system, use an initial dose of 135 to 235 fluid ounces (8.8 to 15.4 pounds) per 1000 gallons fluid to be followed by subsequent maintenance dosages. A higher dosage range and/or increased frequency of treatment may be required depending upon the rate of dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

The preservative should be dispersed into the use-dilution of the hydraulic fluid using a metering pump and uniformly dispersed throughout the system.

NON-POTABLE REVERSE OSMOSIS SYSTEMS
This product is recommended for the control of bacteria and fungi in non-potable reverse osmosis systems. Use of this product in potable water or dialysis is prohibited. Add 10 to 333 ppm of this product (0.15 to 5 ppm active ingredient) into reverse osmosis systems by either continuous feed or periodic injection. Compatibility of this product with reverse osmosis membranes should be confirmed with membrane manufacturer. For the control of bacteria and fungi in carbon beds, add 10 to 333 ppm of this product (0.15 to 5 ppm active ingredient) by either continuous or batch feed. For periodic membrane cleaning, add 0.4 to 1.0 pound of this product to every 120 gallons of cleaning solution (6 to 15 ppm active ingredient). Badly fouled systems should be cleaned before treatment is begun.

PHOTOPROCESSING SYSTEMS
Start with a clean system. Water recycling: Use 2.1 to 4.2 pounds (32 to 64 fluid ounces) of this product per 1,000 gallons capacity of water in the system. Add to final rinse or used water collection tank by slug dose once weekly or as needed. ONCE-THROUGH: Use 26 pounds (3 gallons) of product per 1,000 gallons capacity of water in the system, single application start-up dosage added to the wash tanks. Thereafter, add this product each operating day for one hour using a chemical proportioning pump at a dosage of 2 to 3 pounds per hour (32 to 48 fluid ounces) to wash tanks per 1,000 gallons of water used. Increase to two hours per day if needed.

The user is advised that he must maintain a level of discharge into the publicly-owned treatment works which is in compliance with the recommended guidelines for the photographic processing industry. Contact your Regional EPA Office for guidance.

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