Biosperse™ CX9989 MICROBIOCIDE

**ACTIVE INGREDIENT:** Bromochloro-5,5-dimethylhydantoin .... 98%  
**OTHER INGREDIENTS: ........................................... 2%**  
**TOTAL: .................................................. 100%**  

EPA Reg. No. 8522-30-74585  
EPA Est. No. 72981-N-001

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**DANGER**  
CORROSIVE; CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS. EYE CONTACT MAY CAUSE LOSS OF VISION. HARMFUL IF INHALED. IRITATING TO NOSE AND THROAT. HARMFUL IF ABSORBED THROUGH SKIN OR SWALLOWED.

Avoid breathing dust or spray mist. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear goggles with side-plates, face shield, or safety glasses, protective clothing and chemical-resistant gloves. 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 before reuse.

**GENERAL PRECAUTIONS AND RESTRICTIONS** USE WITH ADEQUATE VENTILATION. Do not smoke, drink, or eat while handling. Do not ship with foods, feeds, drugs, or clothing. Keep container tightly closed when not in use.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of waste. Do not discharge effluent or release 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 of the intention to discharge. Do not discharge effluent containing this product to sewer systems without first notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**  
CORROSIVE AND STRONG OXIDIZER

**FIRST AID**

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, if 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 by 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**WARNING:** Keep out of reach of children. Store in a cool, dry, well-ventilated area in its original container or authorized equivalents. Avoid prolonged contact with skin and eyes. Do not contaminate treated areas with effluent. Do not contaminate with water, siphon, or pressure from the foam caps. Do not contaminate water by cleaning of equipment or disposal of waste. Do not discharge effluent or release 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 of the intention to discharge. Do not discharge effluent containing this product to sewer systems without first notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**PHYSICAL OR CHEMICAL HAZARDS:** STRONG OXIDIZING AGENT. Do not mix with other chemicals. Mix with water only. Reaction with combustible materials, organic materials, bases, moisture or with oxidizers may generate heat, hazardous gases and possibly, fire or explosion. Do not add to dispensers or other equipment that is not dry and clean of any chemical remnants. Does not burn, but will decompose, from approximately 320°F (159°C), releasing toxic gases. Avoid ventilation and dusting.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE**

Store in a dark, cool, below 85°F (29°C), dry, well-ventilated area, in its original container, away from energy sources, combustible organic materials, fuel and flammables, and moisture.

**PESTICIDE DISPOSAL**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or its container 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 HANDLING**

For PAIL drums with tight lids: Completely empty lid by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into appropriate equipment. Nonrefillable 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: Replace and tighten closures. Pour triple rinse water into container on its end and tip it to back and forth several times. Empty rinse into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

For PAIL: Nonrefillable 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 remaining contents into application equipment or a mix tank or store rinsate for later use or disposal. Drain 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**NOTE TO PHYSICIAN**

Beneficial microbiome damage may compound the use of gastric levodopa.

**SPILLS**

When handling or dealing with spills, use goggles with side-shields, or face shield; protective clothing, including chemical-resistant gloves and boots; use a dust respirator if dusting occurs. Sweep up dry spills and dispose of as described for pesticide disposal. If container contents are contaminated or decomposing, change the container. Isolate unsealed container in the open or in a well-ventilated area; food with large volumes of water if necessary.

**IN CASE OF FIRE**

Do not use ammonium phosphate extinguisher near water and this product. Hazardous reactions may occur.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the entire label and use strictly in accordance with precautionary statements and directions.

**INDUSTRIAL RECURCILATING COOLING WATER SYSTEMS**

Used effectively at treatments to achieve exposures to one part per million (ppm) of active residual biocide to control algae, bacterial and fungal slime in industrial cooling towers; influent water systems, e.g., cooling towers, filters, and lagoons, etc., heat-exchange water systems; industrial water scrubbing systems; brewing and canning pasteurizers and industrial air conditioning systems equipped with a mist eliminator.

**Treatment rates**

Initial treatment: When noticeably fouled, add 2.6 lbs. of this product per 10,000 gal. of water contained in the system. Repeat initial treatment until one ppm of active residual biocide is established for at least 4 hours. Subsequent treatment: When microbial control is evident, add 1-3 lbs. of this product per 10,000 gal. of water contained in the system. Repeat as necessary to maintain one ppm of active residual biocide for at least 4 hours.

**AIR CONDITIONER CONDENSATE**

Place one or more tablets in condensate line dispenser. Check once every six months or as necessary. The residual levels of this product will vary depending upon atmospheric conditions and indoor air temperature requirements.

**ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS**

Use the control of algae, bacterial and fungal slime, by adding to the system inlet, or before any other contaminated area in the system, in once-through and closed loop systems; cooling ponds; canals; and lagoons.

Initial treatment: When noticeably fouled, add 2.6 lbs. of this product per 10,000 gal. of water contained in the system. Repeat initial treatment until one ppm of active residual biocide is established for at least 4 hours. Subsequent treatment: When microbial control is evident, add 1-3 lbs. of this product per 10,000 gal. of water contained in the system. Repeat as needed to maintain one ppm of active residual biocide for at least 4 hours.

**ORNAMENTAL FOUNTAINS**

See treatment rates for industrial recirculating cooling water systems.

**PULP AND PAPER MILL WATER SYSTEMS**

This product is intended for use as a slimicide for the process water used in the manufacture of paper and paperboard products that do not contain food. Treat water at critical areas in the system 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. Foulant: Based by system volume.

When a system is noticeably fouled: Add 0.85 to 2.6 lbs. of this product per 10,000 gal. of water contained in the system. When biological control is evident, add 1-3 lbs. of this product per 10,000 gal. of water contained in the system. Repeat as necessary to maintain one ppm of active residual biocide for at least 4 hours.

**Add sufficient product to maintain a measured residual up to 5 ppm as biocide. Once biological control is evident, the use of this product normally can be reduced to something less than 1 ppm as biocide.**

**Alternative method of calculating the appropriate level of this product to estimate the paper mill’s daily production, then add, over a 24-hour period, up to 588 grams (1.27 lbs.) of this product per dry ton of paper produced over a 24-hour period. Test for biocides to verify the level of ppm is not being exceeded.