**Biosperse™ XD3899 MICROBIOCIDE**

(Acronym Bromide Solution)

**A BACTERICIDE, SMICIDICIDE AND ALGAECIDE FOR TREATING RECIRCULATING COOLING WATER SYSTEMS**

**ACTIVE INGREDIENT**

Ammonium Bromide .......................... 35.0%

OTHER INGREDIENTS .......................... 65.0%

**TOTAL** ........................................ 100.0%

**EPA Reg. No.**

8022-64-7465

**EPA Est. No.**

74655-0000-001 (3006)

74655-WI-001-001 (1070)

74655-MA-001-001 (1065)

74655-NH-001-001 (1072)

74655-TX-1-1223

**Material:**

791192

**Net weight:**

1247.40 KG (2750.05 LB)

267.0 Gal (116.4 Oz)

**Plant:**

3806

**Sequence #: 1**

**SETTING OUT OF REACH OF CHILDREN CAUTION**

**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. Get medical help if irritation persists.

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 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 SWALLOWED:

Call a poison control center or doctor immediately for treatment advice. Have person sit down if able; 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**YOU MAY ALSO CALL**

1-844-SOLENIS (1-844-765-3047)

**FOR EMERGENCY MEDICAL TREATMENT INFORMATION**

**NOTE TO PHYSICIAN**

Acute oral ingestion may cause abdominal pain, vomiting and diarrhea.

**Precautionary Statements**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

**CAUSES MODERATE EYE IRRITATION**

Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

**GENERAL PRECAUTIONS AND RESTRICTIONS**

USE WITH ADEQUATE VENTILATION. Do not smoke, drink, or eat when handling. Do not ship with food, 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 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 sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**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. This product is to be used only in conjunction with: 1) an oxidant such as sodium hypochlorite (typically 12.5%) to produce the biocide; and 2) the product feed/delivery system (described below).

This product and the oxidant are mixed in a specially designed reactor which produces the biocide on site. The product feeding system controller ensures the automatic production of the biocide based on flow rates, feed rates, temperature, and pH. The design of treatment, installation, calibration and operation of the feeding system in all plants should be conducted only by authorized and trained personnel.

Use of this product for any other purposes or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited. The biocide produced by the feed system is immediately added to the process waters for which treatment is required. The biocide may be added to any point of uniform mixing. Additional may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

**NOTE:** Do not use other feeding methods to mix this product and the oxidant, or mix this product with other additives so as to avoid decomposition of the biocide. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

**RECIRCULATING COOLING SYSTEMS**

Used effectively at dosages recommended to achieve exposure to 0.3-5.0 parts per million (ppm) of residual biocides expressed as total chlorines, or as needed to maintain control of algal, bacterial, and fungal slimes in industrial cooling towers, evaporative condensers, heat exchange water towers, influent systems such as flow through filters, industrial water scrubbing systems, brewery pasteurizers, sewage systems (septic tanks, leach fields, tank lines, sewers, lagoons, and sewage effluent water), industrial air-washing systems equipped with a mist eliminator.

**Dosage Rates**

Initial Dose: When noticeably fouled, add sufficient biocide produced by the reactor to the measured concentration of 0.3-5.0 ppm residual biocides, expressed as total chlorine. The recommended dosage is typically achieved by mixing 0.54 gallons of Sodium Hypochlorite (12.5%) with 0.22 gallons of this product in the reactor.

Subsequent Dose: Once microbial control is evident, add sufficient biocide produced by the reactor to maintain the measured residual biocidal concentration at 0.3-5.0 ppm in process waters, expressed as total chlorine. Continue as in initial dose.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE**

Store unused product in original container in a cool, dry, well-ventilated area away from energy sources, acids, bases, and heavy metal salts.

**PESTICIDE DISPOSAL:**

Pesticide wastes are acute hazardous. Improper disposal of excess pesticide, spray mixture, or rinse water 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**

Non-returnable container. Do not reuse or refill this container. 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 ½ full with water. Replace and tighten the closure. 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 rinse into application equipment or a mix tank or store rinse for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**SPILLS**

When handling or dealing with spills, use goggles with side shields or face shield, protective clothing, including chemical-resistant gloves and boots, use approved respirator. Absorb on sand or vermiculite and place in closed container and dispose of as described for pesticide disposal. If containers are contaminated or decomposing, do not reseal; isolate unused container in the open or a well-ventilated area; flood with large volumes of water if necessary.

Produced for: Solenis LLC

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Solenis LLC

500 Hercules Rd

Wilmington, DE 19808

(302) 594-5000

Emergency Phone Number

1-844-SOLENIS (1-844-765-3047)

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