

# SPECTRUM® XD8904

GRANULAR  
MICROBICIDE

FOR CONTROL OF BACTERIA, FUNGI AND ALGAE IN RECIRCULATING COOLING WATER  
SYSTEMS, AIRWASHERS AND PAPER AND PAPERBOARD PROCESS WATER

COMMERCIAL  
DANGER



POISON



CORROSIVE

DANGER CORROSIVE TO EYES AND SKIN  
POTENTIAL SKIN SENSITIZER

READ THE LABEL BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

**GUARANTEE:**

Available chlorine present as 1,3-dichloro-5,5-dimethylhydantoin and  
1,3-dichloro-5-ethyl-5-methylhydantoin.....68.0%

REGISTRATION NO. 28557  
PEST CONTROL PRODUCTS ACT

Net Contents:

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Solenis Canada ULC  
942 Brant Street  
Burlington, ON L7R 2J7  
Telephone: 1-905-632-7861  
Emergency Telephone: 1-844-SOLENIS (1-844-765-3647)

FOR USE IN FOOD PLANTS AND OTHER INDUSTRIAL USE ONLY: Not intended for use in potable water systems.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

**PRECAUTIONS:**

**KEEP OUT OF REACH OF CHILDREN. HARMFUL OR FATAL IF SWALLOWED OR INHALED. CORROSIVE TO EYE AND SKIN. DO NOT TAKE INTERNALLY.** Causes eye and skin damage. Irritating to nose and throat. Avoid breathing dust. Use with adequate ventilation. Do not get into eyes, on skin or clothing. Wear chemical resistant coveralls over long sleeved shirt and long pants, goggles or a face shield, chemical-resistant gloves, socks and chemical resistant footwear during mixing, loading, clean up and repair and while cleaning equipment and handling product. Wash thoroughly after handling. Immediately remove contaminated clothing and wash before reuse. Potential skin sensitizer.

**FIRST AID:**

For eye contact, 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 centre or doctor for treatment advice.

For skin or clothing contact, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre 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 centre or doctor for further treatment advice.

If swallowed, call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:**

Probable mucosal damage may contraindicate the use of gastric lavage.

**ENVIRONMENTAL HAZARDS:**

This product is toxic to fish and aquatic invertebrates. Do not discharge the effluents containing this product directly into lakes, streams, ponds, rivers, estuaries, oceans, or public waters. Treat the effluents in a Waste Water Treatment system before release. Do not contaminate these waters by direct application, cleaning of container and equipment or disposal of wastes.

**PHYSICAL AND CHEMICAL HAZARDS:**

Strong oxidizing agent. 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 and explosion. Contamination with moisture, organic matter or other chemicals may start a chemical reaction with fire and explosion. In case of contamination or decomposition do not reseal container. If possible, isolate container in open air or well ventilated area, if necessary flood with large volumes of water.

**DISPOSAL:**

1. Triple or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Follow provincial instruction for any required additional cleaning of the container prior to disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**DIRECTIONS FOR USE: DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. **DO NOT** discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

## **RECIRCULATING COOLING WATER SYSTEMS**

Spectrum XD8904 Microbicide aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water towers, influent systems such as flow through filters, lagoons etc., industrial water scrubbing systems. This product may be added to the systems either continuously or intermittently or as needed. The frequency of feeding and duration of the treatment will depend upon the severity of the problem. **BADLY FOULED SYSTEMS** must be cleaned before treatment is begun.

### **FOR CONTROL OF BACTERIA AND FUNGI INTERMITTENT OR SLUG METHOD**

**INITIAL DOSE:** When the system is noticeably fouled, add 60 to 600 gms to 5000 Litres or 12 to 120 parts per million of the water in the system. Repeat until control is achieved. **SUBSEQUENT DOSE:** When microbial control is evident add 60 to 450 gms to 5000 Litres or 12 to 90 parts per million of water in the system every 3 days or as needed to maintain control.

### **CONTINUOUS FEED METHOD**

**INITIAL DOSE:** When a system is noticeably fouled, add 60 to 600 gms to 5000 Litres or 12 to 120 parts per million of water in the system. **SUBSEQUENT DOSE:** Continuously feed to maintain a dosage of 60 to 450 gms to 5000 Litres or 12 to 90 parts per million of water in the system.

### **FOR CONTROL OF ALGAE INTERMITTENT OR SLUG METHOD**

**INITIAL DOSE:** When the system is noticeably fouled add 60 to 600 gms per 5000 Litres or 12 to 120 parts per million of water in the system. Repeat until control is achieved. **SUBSEQUENT DOSE:** When algae control is evident add 60 to 450 gms to 5000 Litres daily or 12 to 90 parts per million daily or as needed to maintain control.

### **CONTINUOUS FEED METHOD**

**INITIAL DOSE:** When the system is noticeably fouled add 60 to 600 gms to 5000 Litres or 12 to 120 parts per million of water in the system. Repeat until control is achieved. **SUBSEQUENT DOSE:** Continuously feed to maintain a dosage of 60 to 450 gms to 5000 Litres or 12 to 90 parts per million of water in the system.

## **AIRWASHERS**

For use only in industrial airwasher systems that maintain effective mist eliminating components. Spectrum XD8904 Microbicide controls slime forming bacteria, fungi and algae in industrial airwasher systems. Add Spectrum XD8904 Microbicide at the rate of 60 to 600 gms (12 to 120 ppm) per 5000 Litres of water in the system, depending upon the severity of the contamination. Control the application by measuring the free chlorine residual in the treated water. There is no need to exceed 1.0 ppm as free chlorine. Badly fouled systems must be cleaned before treatment is begun.

### **INTERMITTENT OR SLUG METHOD**

**INITIAL DOSE:** When system is noticeably fouled add to airwasher sump or chill water sump to insure uniform mixing. Add 60 to 600 gms to 5000 Litres or 12 to 120 parts per million of water. **SUBSEQUENT DOSE:** When microbial control is evident add 60 to 360 gms to 5000 Litres or 12 to 72 parts per million of water.

### **CONTINUOUS FEED METHOD**

**INITIAL DOSE:** When system is noticeably fouled add to air washer sump or chill water sump to insure uniform mixing. Add 60 to 600 gms to 5000 Litres or 12 to 120 parts per million of water. **SUBSEQUENT DOSE:** When microbial control is evident add 60 to 360 gms to 5000 Litres or 12 to 72 parts per million.

#### **PAPER AND PAPERBOARD PROCESS WATER**

Spectrum XD8904 Microbicide should be added to process water streams at, or immediately prior to, a point of sufficient mixing such as the fan pump or wire pit. Use a feeder designed for solid oxidizing biocides to apply this product. Spectrum XD8904 Microbicide is compatible with chemicals commonly used in paper production. All commonly used methods for measuring total available chlorine can be used with Spectrum XD8904 Microbicide.

**INITIAL DOSE:** When the system is noticeably fouled apply 5 to 50 grams of Spectrum XD8904 Microbicide per 1,000 litres of process water to achieve 0.5 to 1.5 ppm available chlorine at the target treatment point. Repeat as needed to maintain 0.5 to 1.5 ppm for at least 4 hours.

**SUBSEQUENT DOSE:** When microbial control is evident, the total chlorine residue level in the system could be maintained at less than 0.5 ppm. Should the system become fouled again, repeat initial dose instructions. Do not use more than 10 ppm of Spectrum XD8904 Microbicide in the manufacture of paper and paperboard that may contact food.