



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 15, 2021

Christina Swick  
Agent  
Solenis LLC  
701 Market St. Suite 111, Box 112  
St. Augustine, FL 32095

Subject: PRIA Label Amendment – Adding new use for Algal, bacterial and fungal slime control in industrial water systems (algal, bacterial and fungal slime control)  
Product Name: SPECTRUM XD1878 Microbiocide Agent  
EPA Registration Number: 74655-34  
Received Date: June 29, 2020  
Decision Number: 00218478

Dear Christina Swick:

The application referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable under FIFRA sec 3 (c)(5). You must submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. Pursuant to 40 CFR 156.10(a)(6), you must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Assurance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, you may contact Joseph Daniels via email at [Daniels.joseph@epa.gov](mailto:Daniels.joseph@epa.gov).



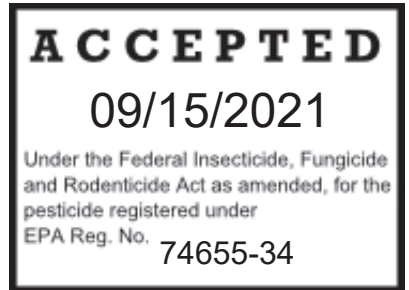
Eric Miederhoff  
Acting Branch Chief  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure

# SPECTRUM™ XD1878

## Microbiocide Agent

ACTIVE INGREDIENT  
Ammonium Carbamate.....19.50%  
OTHER INGREDIENTS.....80.50%  
TOTAL.....100.00%



**DANGER**  
**KEEP OUT OF REACH OF CHILDREN**

### 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, then continue rinsing eye. 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 sip a glass of water if able to swallow. Do not induce vomiting unless told by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- **IF ON SKIN:** 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 ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

**IN CASE OF EMERGENCY CALL 1-844-SOLENIS (1-844-765-3647)**

Note: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information on product and usage, call 1-844-SOLENIS (1-844-765-3647)

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing. Use with adequate ventilation. Wear protective eyewear, (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical-resistant) when handling. Wash thoroughly with soap and water after handling and before eating drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

### ENVIRONMENTAL HAZARDS

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. Use SPECTRUM XD1878 for the control of bacteria, algae and fungi and associated slimes in pulp and paper mill water systems, the production of fiberglass and industrial water systems, as directed below.

SPECTRUM XD1878 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce chloramine and 2) the SPECTRUM XD1878 feeder/delivery system, which is programmed to automatically and optimally produce a dilute solution of chloramine. The installation, calibration and operation of the SPECTRUM XD1878 feeding system must be conducted only by Solenis authorized and trained personnel.

Once generated, add chloramine to the process waters for which treatment is required. Chloramine may be added to any point that ensures uniform mixing. Addition of chloramine 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 modes to mix SPECTRUM XD1878 and sodium hypochlorite or mix SPECTRUM XD1878 with other additives so as to avoid decomposition of chloramine.

### **Pulp and Paper Mill Water Systems and Production of Fiberglass**

Use SPECTRUM XD1878 as a microbiocide in the manufacture of paper and paperboard that contacts food. This product is also used for the control of algal, bacterial and fungal slimes, in pulp and paper mill fresh and sea water influent systems, and associated cooling water systems and wastewater treatment systems. This product is also used in pulp, paper and paper board mills systems, non-potable water systems, starch slurries, and other process water. This product is also used in the production of fiberglass.

#### Dosage Rates

Initial dose: When noticeably fouled, add sufficient chloramine to achieve a measured concentration of 0.5 -10.0 ppm residual biocide, expressed as total chlorine. The dosage can be achieved by mixing 1 liter (33.8 fl. oz.) of Sodium Hypochlorite (12.5%) with 0.7 kg (1.54 lbs.) of SPECTRUM XD1878 in the SPECTRUM XD1878 feeder/deliver system.

Subsequent Dose: Once microbial control is evident, add sufficient chloramine to maintain the measured residual biocide concentration at 0.5 -10.0 ppm in process waters, expressed as total chlorine.

Note: If chloramine is detected in the effluent, it can be neutralized by addition of sodium metabisulfite until the chloramine is no longer detected.

### **Industrial Water Systems**

Use SPECTRUM XD1878 for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, heat exchange water towers, brewery and food pasteurizers including industrial microbial and biofuel fermentation processes, industrial fresh water systems, airwashers, seawater desalination and reverse osmosis systems, paint spray booth sumps, non-fish containing decorative fountains and ponds used for cooling purposes, sewage and wastewater systems, source water for potable water treatment facilities\* and influent systems such as flow through filters and industrial water scrubbing systems. This product is also used for the control of algae, bacteria, fungi and mollusks in both seawater and freshwater influent systems.

### **Dosage Rates**

**Initial dose:** When noticeably fouled, add sufficient chloramine to achieve a measured concentration of 0.3-5.0 ppm residual biocide, expressed as total chlorine. The dosage can be achieved by mixing 1 liter (33.8 fl. oz.) of Sodium Hypochlorite (12.5%) with 0.7 kg (1.54 lbs.) of SPECTRUM XD1878 in the SPECTRUM XD 1878 delivery feeder system.

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

Note: Chloramine levels must be monitored. If chloramine is detected, it must be neutralized to levels below 2 ppb for freshwater and 3 ppb for saltwater by the addition of sodium metabisulfite.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems, and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW; residual levels of chloramine in the effluent must be monitored and neutralized using on-line monitoring and control equipment.

When this product is used to treat recirculating cooling water systems, evaporative condensers, influent water systems (not part of once-through industrial water systems), brewery and food pasteurizers including industrial microbial and biofuel fermentation processes, airwashers, paint spray booth sumps, and non-fish containing decorative fountains and ponds used for cooling purposes; effluent detection of chloramine should be conducted at least once per shift.

**\*Not for direct potable water treatment**

### **STORAGE AND DISPOSAL**

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

#### **STORAGE**

Store in a cool, dry, well-ventilated area, in well-closed original containers, away from energy sources, acids, alkaline materials, oxidizing agents and heavy metal salts.

#### **PESTICIDE DISPOSAL**

Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate 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 agent or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER HANDLING

Non-refillable 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 the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll 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 rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

## SPILLS

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

EPA Reg. No. 74655-34

EPA Est. No. 74655-GA-001  
74655-WI-001  
74655-OR-001

Manufactured by: Solenis LLC

Solenis LLC  
500 Hercules Rd  
Wilmington, DE 19808  
(302) 594-5000  
Emergency Phone Number  
1-844-SOLENIS (1-844-765-3647)

## WARRANTY

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with label directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.



{  MUL = 5 mg/l, miscellaneous treatment chemical, Macon, GA }

[Note to reviewer: information in { } is optional marketing and will only appear on product labels where the tradename is NSF certified]

mmyy [where mm is two numerical digit month and yy is two numerical digit year to be used to identify label version]

[Note to reviewer: information in [ ] will not appear on marketplace label]