



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 13, 2018

Kate Ingram  
Senior Product Regulatory Specialist  
Solenis LLC  
500 Hercules Road  
Wilmington, DE 19808

Subject: Notification per PRN 98-10 – To update label language  
Product Name: Spectrum XD1878 Microbiocide Agent  
EPA Registration Number: 74655-34  
Application Date: January 17, 2018  
Decision Number: 537525

Dear Ms. Ingram:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

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 the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. 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) list 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. 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 Compliance.

If you have any questions, you may contact Emilia Oiguenblik by phone at 703 347 0199, or via email at [Oiguenblik.emilia@epa.gov](mailto:Oiguenblik.emilia@epa.gov) or Eric Miederhoff by phone at 703 347 8028, or via email at [Miederhoff.eric@epa.gov](mailto:Miederhoff.eric@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "E. Miederhoff".

Eric Miederhoff  
Product Manager 31  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

## NOTIFICATION

74655-34

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/13/2018

# SPECTRUM™ XD1878

## Microbiocide Agent

FOR USE AS A BACTERICIDE, SLIMICIDE AND ALGICIDE FOR TREATING WATER SYSTEMS IN PULP AND PAPER MILLS AND RECIRCULATING COOLING WATER SYSTEMS

### 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 ~~1-800-ASHLAND~~ 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 ~~1-800-ASHLAND (1-800-274-5263)~~ 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 and recirculating cooling 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 **Ashland 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**

#### **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:** (For pulp and paper mill systems). If chloroamine is detected in the effluent, it can be neutralized by addition of sodium metabisulfite until the chloramine is no longer detected.

## **Recirculating Cooling Water Systems**

Use SPECTRUM XD1878 for microbial control in industrial cooling towers, evaporative condensers, heat exchange water towers, and influent systems such as flow through filters and industrial water scrubbing 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: (For recirculating cooling water systems). 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.

## **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

Manufactured for:

Hercules Incorporated,

A wholly owned subsidiary of Ashland Inc.

Solenis LLC

500 Hercules Rd

Wilmington, DE 19808

(302) 594-5000

Emergency Phone Number

1-800-ASHLAND (1-800-274-5263)-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.

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]