



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
3876-158

Date of Issuance:
Feb. 6, 2002

Term of Issuance: Conditional

Name of Pesticide Product:
Spectrum OX109

Corrected
TL

5/20
2002
1

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

BetzDearborn Division, Hercules Incorporated
4636 Somerton Rd.
Trevose, PA. 19053

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to the use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Revise the EPA File symbol 3876-RLI to EPA Registration Number 3876-158 and add your establishment number.
3. On the list of uses delete sanitizer and insert "for control of microbial slime" after agent on page 1 and page 2. Fix typo in Dosage Rates in Once Through from gallons to gallon.
4. Correct storage temperature in Storage and Disposal Section to read "Product should be stored at 50° F or above."
5. Reorder the First Aid statements as follows from top to bottom: Eyes, Inhaled, Skin, Swallowed.
6. Submit two copies of the revised final printed label for our records before shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Date:

Robert S. Brennis
Robert S. Brennis
Product Manager 32

Feb. 6, 2002



BetzDearborn

Made in USA
GEN 0110 - 11/9/01

Add language

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	A

SPECTRUS® OX109

FOR USE AS A DISINFECTANT, SANITIZER, BACTERICIDE, SLIMICIDE, ALGICIDE AND MOLLUSK CONTROL AGENT IN RECIRCULATING COOLING WATER SYSTEMS, BREWERY PASTEURIZING SYSTEMS, AIR WASHERS, ONCE THROUGH COOLING WATER AND WASTEWATER TREATMENT SYSTEMS, AND PULP AND PAPER MILLS.

DIRECTIONS FOR USE: It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read entire label and use strictly in accordance with precautionary statements and directions.

RECIRCULATING COOLING WATER SYSTEMS, INCLUDING AIR WASHERS AND BREWERY PASTEURIZERS: When used as directed, this product effectively controls algal, bacterial, fungal slime and controls the settlement and growth of mollusks such as the zebra mussel (*Dreissena*) or the Asiatic clam (*Corbicula*) in commercial and industrial cooling towers; influent water systems such as flow through filters; heat exchange water systems; and industrial water scrubbing systems.

DOSAGE RATES: Add this product to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example: 1) 1.6 to 26.5 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution; 2) 1.3 to 21.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

INITIAL DOSE: When the system is noticeably fouled, add 0.0003 to 0.024 gallon of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.008 to 0.040 lb. gas chlorine per 1000 gallons of contained water), or sodium hypochlorite solution (0.007 to 0.032 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained water). **SUBSEQUENT DOSE:** When microbial control is evident, add 0.0002 to 0.024 gallon of this product per 1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.004 to 0.040 lb. gas chlorine per 1000 gallons of contained water), or sodium hypochlorite solution (0.003 to 0.032 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained water).

ONCE-THROUGH COOLING WATER AND WASTE WATER TREATMENT SYSTEMS: When used as directed, this product effectively controls algal, bacterial and fungal slime and controls the settlement and growth of mollusks such as the zebra mussel (*Dreissena*) or the Asiatic clam (*Corbicula*) in once-through fresh and sea water cooling systems and disinfects secondary and tertiary wastewater treatment systems.

DOSAGE RATES: Add this product to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example: 1) 1.6 to 26.5 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution; 2) 1.3 to 21.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

INITIAL DOSE: When the system is noticeably fouled, add 0.0008 to 0.049 gallon of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.02 to 0.08 lb. gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.02 to 0.06 gallon of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume). **SUBSEQUENT DOSE:** When microbial control is evident, add 0.0003 to 0.049 gallon of this product per 1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.008 to 0.08 lb. gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.006 to 0.06 gallon of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume).

PULP AND PAPER MILLS: When used as directed this product effectively controls algal, bacterial, and fungal slime in pulp and paper mill fresh and sea water influent water systems; cooling water systems, wastewater treatment systems, non-potable water systems, and other process water.

DOSAGE RATES: Add this product to the system at a 0.125 to 2.0 sodium bromide/oxidant ratio. For example: 1) 1.6 to 26.5 pounds of chlorine gas (99.9%) per gallons of sodium bromide solution; 2) 1.3 to 21.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution. Add sufficient amount of this product and oxidize with either gas chlorine or sodium hypochlorite solution to achieve a residual bromine level of 0.5 to 5 ppm or as needed to maintain control of the system. This product can be added whenever chlorination is applied.

Feed this product either before or after the oxidant injection point into the water to be treated. Be sure rapid mixing of the treated water, this product and oxidant is achieved. Pump manufacturers can recommend the appropriate materials of construction and capacity for a pump to feed this product or sodium hypochlorite solution. If used as the oxidant, chlorine gas must be handled and used only in accordance with practices recommended in The Chlorine Manual published by the Chlorine Institute, Inc., New York. Use chlorine gas only in well ventilated areas.

Treatment levels of this product and oxidant can best be measured with test kits for either bromine or chlorine. Tests should be made immediately after drawing water samples from the system. Use test kits according to directions: 1. When a bromine test kit is used, results can be read directly as ppm bromine. 2. When a chlorine test kit is used, results can be expressed in terms of bromine by multiplying chlorine values by the conversion factor of 2.25.

NOTE: Buyer assumes all responsibility for safety and use not in accordance with directions.

Manufactured for BetzDearborn, a Division of Hercules Incorporated.

FEB - 6 2002

Lot Number:

Material ID: 6017130

Packaging Date: 11/08/2001

Net Weight:

BetzDearborn, a Division of Hercules Incorporated, 4636 Somerton Road, Trevose, PA, 19053 Reg. No.

Business Phone: 215-355-3300 • Emergency Phone: 800-877-1940

3876-158

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BetzDearborn

ACCEPTED
MATERIAL COMMENTS
in EPA Letter Dated:

FEB - 6 2002

Lc lumber:

Material ID: 6017130

Net Weight:

Packaging Date: 11/08/2001

Wash:

Made in USA

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	A

SPECTRUS® OX109

EPA Reg. No. 3876-158

FOR USE AS A DISINFECTANT, SANITIZER, BACTERICIDE, SLIMICIDE, ALGICIDE AND MOLLUSK CONTROL AGENT IN RECIRCULATING COOLING WATER SYSTEMS, BREWERY PASTEURIZING SYSTEMS, AIR WASHERS, ONCE THROUGH COOLING WATER AND WASTEWATER TREATMENT SYSTEMS, AND PULP AND PAPER MILLS.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

IRRITATION MAY DEVELOP FROM EYE AND SKIN EXPOSURE. Avoid contact with eyes. Wear gloves and safety goggles. Wash contaminated clothing 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 local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS

Sodium bromide is not flammable. However, in fires fueled by other materials, hydrogen bromide or bromine may be released. In case of fire, wear self-contained breathing apparatus.

ACTIVE INGREDIENT:	
Sodium bromide	40.0%
INERT INGREDIENTS:	60.0%
TOTAL	100.0%
CONTENTS: LIQUID	
POUNDS PER GALLON: 11.9 (70°F)	
EPA REGISTRATION NUMBER: 3876-	
EPA ESTABLISHMENT NUMBER:	

KEEP OUT OF REACH OF CHILDREN CAUTION

DIRECTIONS FOR USE: It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For product use see Panel 2.

For Industrial Use. Technical advice regarding specific site problems is available from BetzDearborn, a Division of Hercules Incorporated. A Material Safety Data Sheet containing more detailed information relative to this product is available upon request.

FIRST AID	
If swallowed 4	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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If in eyes 1	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 on skin or clothing 3	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 2	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER: 1-800-722-7112	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-877-1940 for emergency medical treatment information.	
NOTE TO PHYSICIAN:	Probable mucosal damage may contraindicate use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

STORAGE AND DISPOSAL

STORAGE: Keep product dry in tightly closed original container when not in use. Store in a cool, dry, well ventilated area. Product should be stored at 50°F (-13°C) or above.

DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. DO NOT REUSE EMPTY CONTAINER. Triple rinse the container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate. Burn only if allowed by state and local authorities. If burned, stay out of smoke.

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