

3008-91

5/21/2014

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Teri Muchow  
Osmose, Inc.  
980 Ellicott Street  
Buffalo, NY 14209

MAY 21 2014

Subject: ORD-X378  
EPA Registration No. 3008-91  
Application Date: March 24, 2014  
Receipt Date: March 25, 2014

Dear Ms. Muchow:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) 3(c)7a, as amended, is acceptable.

**Proposed Amendment:**

- Updating the source of the Active ingredient for the Basic Formulation and Alternate formulations # 2, 3 and 4.
- Updating the Storage and Disposal Statements per PRN 2007-4 revising the Dilution Instructions in the Directions for Use of the label.

**General Comment:**

Copies of the accepted basic and alternate formulations # 2, 3, and 4 dated 4/23/14 CSF's have been inserted in your file for future reference. Plus, a stamped accepted label is enclosed for your records. This labeling supersedes all previous labeling. The next printing of this product must use this labeling unless subsequent changes have been approved. You must submit one copy of the final printed label before selling or distributing the product bearing the revised 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 it's implementing regulation at 40 CFR 152.3.

If you have further questions concerning this letter, then please contact me by telephone at (703) 308-6416 or by e-mail at [hardy.jacqueline@epa.gov](mailto:hardy.jacqueline@epa.gov) or Lorena Rivas by telephone at (703) 305-5027 or by email at [rivas.lorena@epa.gov](mailto:rivas.lorena@epa.gov). When you are submitting information or data in response to this letter, send a copy of this letter to accompany the submission in order to facilitate processing.

Sincerely,



J Jacqueline Hardy  
Product Manager (34)  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

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**ORD-X378**  
**ANTIMICROBIAL – PRESERVATIVE**  
**CONTROLS DECAY, STAIN, MOLD, ROT, AND MILDEW**

Active Ingredients:  
Copper 8-quinolinolate\* ..... 34.18%

Inert Ingredients: ..... 65.82%  
Total : 100.00%

\*Metallic Copper Equivalent: 6.17%

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

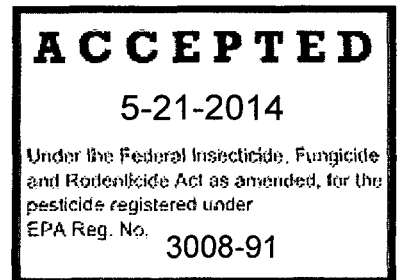
FIRST AID	
If in eyes:	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing:	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed:	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled:	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
HOT LINE NUMBER	
In case of emergency, call CHEMTREC toll free at 800-424-9300. Have the product container or label with you when calling a poison control center or doctor or going for treatment.	

**SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

EPA Registration No. 3008-91  
EPA Establishment No. 3008-TN-1

Net Contents: \_\_\_\_\_

Manufactured by  
Osmose, Inc.  
980 Ellicott Street  
Buffalo, NY 14209



**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Harmful if swallowed, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling, before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear eye protection and rubber gloves.

Protective clothing must be changed when it shows signs of contamination. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Applicators must not eat or drink, or use tobacco products during those parts of the application process that may expose them to the wood treatment formulation (e.g., manually opening/closing cylinder doors, moving trams out of cylinders, chemicals, handling freshly treated wood).

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wash waters. 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.

**STORAGE AND DISPOSAL**

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

**PESTICIDE DISPOSAL:**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these pesticides 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:**

**Totes:** *Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Empty tote container must be returned to a tote collection agent. Contact product supplier for additional information.*

**Residue removal:** *Cleaning container before final disposal is the responsibility of the person disposing of the container. To clean container before final disposal, fill container about 10 percent full with water; agitate container vigorously; discard rinsate according to pesticide disposal instructions; repeat this rinsing procedure two more times. For additional container disposal information, contact product supplier.*

**Drums:** *Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.*

**Residue Removal:** *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 1/4 full with water. Replace and tighten closures. 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 rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat the procedure two more times. Offer for reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.*

ORD-X378 is a waterborne preservative recommended for use in the preservation of wood products by spray, dip, or vacuum/pressure treatment for controlling wood staining and decay organisms, surface molds and mildew.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**FOR CONTROL OF WOOD MOLD AND DECAY**

**COMPOSITION:** ORD-X378 is a formulation of copper 8-quinolinolate designed for the treatment of solid, and composite wood products used above ground by spray, dip, and above ground, and ground and fresh water contact, by vacuum/pressure process to control wood stain, mold and decay.

**DIP TREATMENT:** Dip treatment of wood in ORD-X378 includes the following representative wooden items: interior structural wood; wood items used or intended for use in packaging, transporting, or holding raw agricultural products; wooden decking for truck trailers, railroad cars, beverage cases; interior plywood and lumber framing and wood components of vans and refrigerator van bodies; wood inside refrigerators; rail beams; ladders; interior of boats.

**VACUUM/PRESSURE TREATMENT:** Vacuum/Pressure treatment applications include the following representative wood items: interior structural wood; wood items used or intended for use in packaging, transporting, or holding raw agricultural products; wooden decking for truck trailers, railroad cars, beverage cases; interior plywood and lumber framing and wood components of vans and refrigerator van bodies; wood inside refrigerators; rail beams; ladders; interior of boats, wood used for the construction of food processing establishments and warehouses; exterior wood construction lumber, decking, fence boards, gazebos, landscaping, and garden edging, wood shingles, trim, fascia.

**PREPARATION OF TREATING SOLUTION:**

ORD-X378 is added to water to make a treating solution of 0.001% to 2.0% by weight, depending on the end use requirement.

**INSTRUCTIONS FOR TREATING WOOD:**

**DIP TREATMENT** – Lumber and wooden containers should be totally submerged in the treating solution for a period of 5 seconds to 15 minutes, depending upon the absorption required. Harvesting and beverage containers are usually dipped for a period of 5 seconds, while most lumber is treated for 3 minutes. The treated wood should then be drained of excess solution and allowed to air dry.

**PRESSURE TREATMENT** –

Place the wood article to be treated into the pressure cylinder and seal unit. Treat the wooden articles using the pressure treatment procedures consistent with the equipment being used and standard treatment practices. Treatment conditions must be calibrated to yield a 0.005 to 0.40 pounds per cubic foot (pcf) active retention in the treated article. A final vacuum should be used during treatment process to remove any excess treatment solution from surface of treated wood article.

**FOR SAPSTAIN CONTROL**

ORD-X378 should be applied to freshly cut softwood or hardwood lumber and debarked timber within 24 hours of sawing or planing, especially in warm weather. The rate of ORD-X378 selected should be appropriate to the lumber treated, the expected storage or shipping conditions and the duration of sapstain protection required. Use the higher rates recommended on hard to wet woods such as Douglas Fir, when disease conditions are severe, during warm weather, or when longer term protection from sapstain is needed. Treated wood should be protected from heavy rainfall until completely dry.

**APPLICATION** – Lumber and debarked timber is best treated with calibrated spray equipment. A dipping process can be used if the equipment allows complete coverage of the wood surface by the treatment mixture. The spray mixture or dip tank should be monitored to ensure that the selected dilution ratio of ORD-X378 is maintained.

**SPRAY TREATMENT** – Dilute 1 volume of ORD-X378 with ~~45-60~~ 50 - 1000 volumes of water. The fungicide mixture should be applied as a coarse spray to thoroughly cover the wood surface. Run-off should be collected for re-use. Spray equipment should be inspected regularly to ensure that complete coverage is being achieved at all times.

**DIPPING TREATMENT** – Dilute 1 volume with ~~45-40~~ 50 -1000 volumes of water. Wood should be properly spaced during the dipping process to ensure that all wood surfaces are completely covered by the treatment mixture for at least three minutes. Treated wood should be allowed to drain and the mixture collected for re-use.

**COVERAGE** – As a spray, 1 gallon of diluted mixture will treat 150 to 250 square feet of wood depending upon the type of wood. As a dip, 5 to 10 gallons will treat 1,000 board feet.