

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobial Division (7510C)
1200 Pennsylvania Ave. NW
Washington, D.C. 20460



EPA Reg. Number:

Date of Issuance:

3008-94

APR 5 2006

Term of Issuance:

Conditional

Name of Pesticide Product:

ORD-X280

NOTICE OF PESTICIDE:

Registration

Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Osmose, Inc.
980 Ellicott Street
Buffalo, NY 14209

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to 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 that 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; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label changes:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No." 3008-94"
3. Submit two (2) copies of the revised final printed label for the record.

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 this product constitutes acceptance of these conditions.

A stamped label is enclosed for your records. If you have any questions regarding this letter, please contact Zenobia Jones at (703) 308-6198.

Signature of Approving Official:

APR 5 2006
Velma Noble
Velma Noble
Product Manager 31

Date:

APR 5 2006

Regulatory Management Branch I

CONCURRENCES

SYMBOL	Antimicrobials Division (7510C)						
SURNAME	<i>Zenobia Jones</i>						
DATE	<i>4/15/06</i>						

PRODUCT CHEMISTRY

1. The requirements of PR Notice 91-2 were satisfied. The nominal concentration of the active ingredient given in the proposed Basic CSF, dated November 8, 2005 agreed with the percentage declared on the label.
2. The source of the active ingredient, didecyl dimethyl ammonium carbonate and didecyl dimethyl bicarbonate, utilized in this formulation is registered under EPA Reg. No. 6836-236.
3. All inert ingredients utilized are cleared for use in this and other pesticide formulations.
4. The upper and lower certified limits for both the active and inert ingredients are acceptable.
5. The product chemistry package was complete and consistent with the chemical and physical characteristics of the proposed formulation.

ACUTE TOXICITY

1. The acute oral toxicity, acute dermal toxicity and acute inhalation toxicity are acceptable.
2. The primary skin irritation and dermal sensitization studies are acceptable.
3. CIT/PSB waives the primary eye irritation study based upon the dermal corrosion observed in the primary skin irritation study. This waiver is in accordance with the 40 CFR 158.340.

LABELING

1. The signal word is "DANGER" based upon the classification of the primary skin and eye irritation studies.
2. This product satisfies the EPA requirements for Restricted-Use pesticides, based on the classification of the primary skin and eye irritation studies. This is in accordance with the 40 CFR 152.70.
3. Based upon the primary eye and skin irritation of this product, it also satisfies the EPA requirements for child-resistant packaging according to 40 CFR 157.22.
4. The Precautionary Statements should state:

Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin, or, on clothing. Avoid breathing (dust, vapor or spray mist). Wear goggles, face shield, or safety glasses. Wear coverall worn over a long-sleeved shirt, long pants, socks, chemical resistant footwear and chemical resistant gloves. Wash thoroughly with soap and water after handling and before eating drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

5. The First Aid statements should state:

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.
Call a poison Control Center or doctor for treatment advice.

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 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 to do so by a Poison Control Center or doctor
Do not give anything by mouth to an unconscious person

Have the product container or label with you when calling a Poison Control Center or doctor, or, going for treatment.

ORD-X280

Ammonium carbonate and Didecyl	
bicarbonate	16.66%
	83.34%
	100.00%

8.1 lbs. of product per gallon

OF REACH OF CHILDREN DANGER

FIRST AID

See label with you when calling a poison control center or doctor, or going for treatment.

Inhalation: Inhale and rinse slowly and gently with water for 15-20 minutes.

Eye Contact: If contact with eyes, remove contact lenses, if present, after first 5 minutes, then flush with water for 15-20 minutes.

Eye Contact: If contact with eyes, remove contact lenses, if present, after first 5 minutes, then flush with water for 15-20 minutes.

Remove contaminated clothing.

Decontamination: Wash immediately with plenty of water for 15-20 minutes.

Decontamination: Wash immediately with plenty of water for 15-20 minutes.

Decontamination: Wash immediately with plenty of water for 15-20 minutes.

First Aid: If inhaled, sip a glass of water if able to swallow.

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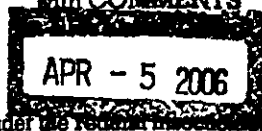
NOTE TO PHYSICIAN

First Aid: If inhaled, sip a glass of water if able to swallow.

First Aid: If inhaled, sip a glass of water if able to swallow.

ADDITIONAL PRECAUTIONS AND STATEMENTS

See label with you when calling a poison control center or doctor, or going for treatment.



Contents: Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide,

Distributed and registered under EPA Reg. No. 3008-94
1 Ellicott Street, Buffalo, NY 14209

ORD-X280 is a waterborne preservative used to protect treated wood articles from the destructive attack of fungi, mold and mildew. ORD-X280 is intended to treat wood used above ground. Examples are decking, railings, spindles, trim and fascia, siding, flooring, trellises, and fencing.

DIRECTIONS FOR USE

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

ORD-X280 is an end-use product. Prepare a use-solution (0.6 -3.9% active) by mixing ORD-X280 with water. A closed-system must be used when preparing the use-solution and for delivery of the use-solution to the treatment vessel.

PRESSURE TREATMENT INSTRUCTIONS

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 0.05 to 0.2 lb/ft³ (0.8 to 3.2 kg/m³) active retention in the treated article of didecyl dimethyl ammonium carbonate/bicarbonate. A final vacuum should be used during treatment process to remove any excess treatment solution from surface of treated wood article.

NOTE: ORD-X280 cannot be used to treat wood intended for direct continuous salt water (marine) immersion. Treated wood must be marked accordingly. In addition, ORD-X280 is not approved for treating wooden articles that are used or intended for use in the packaging of food or feed.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE:

Do not store on side. Avoid creasing or impacting of side walls.

PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or residue 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 DISPOSAL:

Plastic Container:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

Metal Container:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

11/05

Handwritten mark: 687

Technical Bulletin
ORD-X280
Wood Preservative for Pressure Treatment

1. Introduction

ORD-X280 is a waterborne preservative used to protect wood articles from the destruction by fungal decay, mold and mildew. ORD-X280 is to be applied only by wood preserving plants to pressure treat wood articles.

Wood articles treated with ORD-X280 are appropriate for **above-ground use only**. Examples are decking, railings, spindles, trim and fascia, siding, flooring, trellises, and fencing.

2. Description of the Preservative System

ORD-X280 is an end-use product intended for sale to wood treating plants.

ORD-X280 is shipped as a 16.66 percent concentrate. It must be diluted with water. Treatment conditions must be calibrated to yield a 0.05 to 0.2 lb/ft³ (0.8 to 3.2 kg/m³) active retention in the treated article of didecyl dimethyl ammonium carbonate/bicarbonate. A final vacuum should be used during treatment process to remove any excess treatment solution from surface of treated wood article.

3. Materials to be Treated

ORD-X280 is used to pressure treat the following materials:

- 3.1 Dimensional lumber of the following sapwood species: Southern Pine, Ponderosa Pine, Red Pine, Radiata Pine and Caribbean Pine;
- 3.2 Dimensional lumber of the following heartwood species: Douglas-Fir, Western Hemlock, Hem-Fir, Lodgepole Pine, Jack Pine and Redwood;
- 3.3 Maximum nominal size of 2-by-6 in all listed species for decking use only;
- 3.4 Southern Pine and Douglas-Fir plywood;

ACCEPTED
with COMMENTS
EPA Letter Dated:
APR - 5 2006
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, this product is registered under EPA Reg. No. 3008-94

4. Wood Treatment

Plant Equipment: Treating plants shall be equipped with the thermometers, gauges, and recorders necessary to indicate and record accurately the conditions within the treating cylinder during all stages of treatment. Whenever it is practicable the material in any charge shall consist of pieces of the same species similar in form and size, moisture content and receptivity to treatment.

Marking: Lumber and plywood shall be marked to indicate the intended end use "above ground."

Manner of Treatment: The material shall be impregnated with preservative by a combination of such processes and under such conditions as will produce a satisfactory product for the use intended as described below:

Vacuum Treatment: Prior to introduction of preservative, material shall be subjected to a vacuum of not less than -77kPa (22 in. Hg, sea level equivalent). Fill cylinder with preservative under vacuum, release vacuum to allow for solution absorption and then empty cylinder when required uptake is achieved. After cylinder has been emptied of preservative, a vacuum of not less than -77kPa (22 in. Hg, sea level equivalent) may be applied resulting in the material having drier surfaces upon removal from the cylinder.

Empty Cell Treatment: Prior to the introduction of preservative, material shall be subjected to atmospheric air pressure or to higher air pressures of the necessary intensity and duration. A final vacuum of not less than -77 kPa (22 in. Hg) shall be used.

Modified Full Cell Treatment: Prior to introduction of preservative, material shall be subjected to a vacuum of less than -77 kPa (22 in. Hg) (sea level equivalent). A final vacuum of not less than -77 kPa (22 in. Hg) shall be used.

Full Cell Treatment: Prior to introduction of preservative or during any period of condition prior to treatment, material shall be subjected to a vacuum of not less than -77kPa (22 in. Hg.) (sea level equivalent). A final vacuum of not less than 560 Kg/m³ (22 in.) of mercury shall be used. Initial Air Pressure or Vacuum shall be maintained while the cylinder is being filled with preservative. Pressure shall be maintained until the desired volumetric injection has been obtained.

At the conclusion of the pressure period and after the cylinder has been emptied of preservative, a vacuum of not less than -77kPa (22 in. Hg.) at sea level may be created. This results in the material having drier surfaces upon removal from the cylinder.

ACCEPTED
with COMMENTS
EPA Letter Dated:
APR - 5 2006

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the 1974 Act, registered under EPA Reg. No. 3008-94

5. Results of Treatment

Preservative Retention: Retentions shall be determined by wood assay or by plant gauge. Where retention by assay is specified, the retention shall be determined by extraction or analysis of the treated wood. Where retention by gauge is specified, the amount of preservative solution retained shall be determined from readings of working tank gauges or scales.

The vacuum-pressure treating process described in American Wood-Preservers' Association (AWPA) Commodity Standard C1-00 and in the Processing and Treatment Standard of the Use Category System (UCS) shall be used to produce wood articles treated with ORD-X280.

6. Installation and Application

Wood articles pressure treated with ORD-X280 are installed as preservative-treated lumber in accordance with requirements of the applicable *Code*. The industry published installation instructions for wood and pressure-treated wood shall be strictly adhered to.

Wood articles pressure treated with ORD-X280 are permitted in locations where wood is used and/or in locations required by the applicable *Code* to use building materials which are fungal decay resistant. The treated wood members are listed for use in above-ground applications.

Surface treat cut ends with appropriate registered preservative solution.

Locations requiring preservative-treated wood for fungal decay are listed in:

Section 2304.11	<i>International Building Code</i>
Section 2304	<i>Standard Building Code</i>
Section 2311	<i>BOCA National Building Code</i>
Section 2306	<i>Uniform Building Code™</i>
Sections R323, R324	<i>International Residential Code™ for One- and Two-Family Dwellings</i>
Sections 322, 323	<i>International One and Two Family Dwelling Code.</i>

ACCEPTED
 WITH COMMENTS
 EPA Letter Dated:
 APR - 5 2006
 Under the Federal Insecticide,
 Fungicide and Rodenticide Act as
 amended, for the pesticide,
 registered under EPA Reg. No.
 3008-94