SWITED STATES	Office of Registrati	ENTAL PROTECTION AGENCY Pesticide Programs on Division (7505C)	EPA Reg. Number: 3008-69	Date of Issuance: FEB 2.8 1991	
		401 "M" St., S.W. Washington, D.C. 20460		Term of Issuance:	
- ANOTE	NOTICE OF PESTICIDE:		Name of Pesticio		
		egistration	Bardec Part 1		
	of Registrant (include 2		<u>_</u>		
Osmose wood 980 Ellicot Buffalo, NY		Inc.			
be submitted to an	d accepted by the Regis	bstance from that accepted in tration Division prior to us fer to the above EPA registrat	of the label in com		
		the registrant, the above name I Insecticide, Fungicide and P		by	
In order to protect cancel the registr with the registrat	t health and the environation of a pesticide in tion of a product under	d as an endorsement or recommon poment, the Administrator, on a accordance with the Act. The this Act is not to be constru- if it has been covered by othe	his motion, may at a ne acceptance of any wed as giving the reg	my time suspend or name in connection	
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3. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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.

Pherena a. Stone

Theresa A. Stowe Acting Team Leader Product Manager (22) Fungicide-Herbicide Branch Registration Division (7505C) 20/5

Enclosure

DIRECTIONS FOR USE

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

Sold only for formulating BARDEC solutions for pressure treated wood products. Use with caution strictly with manufacturer's instructions. More detailed instructions for use are included in the technical bulletin.

Refer to label attachment "Permissible Exposure limit (PEL) Monitoring Program" for additional information concerning the use of this product.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public 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 sever treatment plant authority. For guidance contact your State Water Board or Regional Office of the Environmental Protection Agency.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near b at or open flame BARDEC Part 1 has acidic properties and react : with galvanized metals, black iron and certain other metals. Do not use galvanized metal containers as highly toxic arsine gas may be formed. To reduce possible corrosion to metals and other parts, all equipment which has been in contact with or exposed to BARDEC Part 1 should be thoroughly washed with water immediately after use

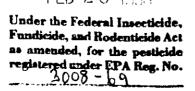
Note to User: Examples of acceptable materials for protective clothing (e.g., gloves, overalls, jackets, and boots) required during application and handling of inorganic assenicals are vinyl, polyvinyl chloride (PVC), neoprene, NBR (Buna N), rubber and polyethylene

STORAGE AND DISPOSAL

STORAGE: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited

PESTICIDE DISPOSAL: Pesticide wastes are acutely bazardous 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 Agency, or the Hezardous Waste representative at the nearest EPA Regional Office for guidance **CONTAINER DISPOSAL:** Triple runse (or equivalent) Then offer for recycling or reconditioning or puncture and dispose of in a sanitary Landfill, or by other approved state and local procedures

ACCEPTED with COMMENTS In EPA Letter Dated FEB 2 8 1996





BARDEC PART:1

For manufacturing **BARDEC** Wood Preservative only.

ACTIVE INGREDIENTS:

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Total Area		united and all all	sta form av	mmered a	e metellic in '
					Total
MERT INGREDIENTS					
Arsenic Acid	••••••	····· · ·			

Total Arsenic, all in water soluble form expressed as metallic is 39.6%

KEEP OUT OF REACH OF CHILDREN





100.00%

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention

IF SWALLOWED: Call a physician or Poison Control Center at once. Dilute stomach contengiving patient two to four glasses of milk or water. Induce vomiting by touching back of throafinger. Give four ounces of milk of magnesia followed by whites of two eggs beaten in a glass of or milk. Keep patient calm and warm to avoid shock. (Do not induce vomiting or give anythmouth to an unconscious person)

IF IN EYES: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes medical attention.

IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration, pref mouth to mouth. Get medical attention

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS EPA EST. NO. 3008-TN-1 EPA REG. NO. 3008



Osmose Wood Preserving, Inc 980 Ellicott Street Buffalo, NY 14209

NET CONTENTS:

BARDEC PART 1 is arsenic acid. It is intended to be mixed with other components to formulate BARDEC wood preservative solutions for use in pressure treatment. The mixing instructions must be followed carefully to ensure that the treatment solution conforms with AWPA specification P5(3)-95. Further information and assistance in solving particular problems is available from Osmose Wood Preserving, Inc. BARDEC wood preservative should be used in accordance with the AWPA standards. Wood products treated with BARDEC in accordance with AWPA standards should be handled in the same manner as those treated with ACA.

TYPICAL BARDEC MIX:

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4384 pounds dry oxide basis containing: 1805 pounds of BARDEC PART 1 (Arsenic Acid), 2,110 pounds of BARDEC PART 2 (Cuprous Oxide), 1100 pounds BARDEC PART 3 (Zinc Oxide).

Aqua Ammonia equivalent to 3024 pounds Anhydrous Ammonia.

2016 pounds Ammonium Bicarbonate or equivalent in Ammonia and Carbon Dioxide.

Larger or smaller mixes may be made by varying in proportion the constituent parts.

- STEP 1. Add initial water to mix tank. As Aqua Ammonia concentration will affect quantities of water used, see Table 1 for initial water quantity. Turn on agitator.
- STEP 2 1805 pounds of BARDEC PART 1 (Arsenic Acid 75% concentration) will be added now. The mix tank should have an Arsenic Acid addition system as shown on the attached sketches. The Arsenic Acid is pumped into the mixer, using a corrosion-resistant drum pump and Acid-resistant hose or piping. Upon emptying each drum of Arsenic Acid it should be rinsed with about eight gallons of water sprayed into and around the drums inside. This rinsate should be transferred to the mixer. Repeat this washing two more times for each drum, resulting in three complete washings of each drum. Replace the 2" diameter plugs in the drums

NOTE: 75% Arsenic Acid is a strong Acid and should be handled with care. In handling, workers should wear rubber coats, pants, and gloves and an Acid-resistant plastic face shield.

Equivalent volume of bulk Arsenic Acid can be used if available.

- STEP 3. Close the hatch and open vent line valve to the Ammonia scrubber system.
- STEP 4 Add Aqua Ammonia containing about 1,840 pounds of Anhydrous Ammonia. (Approximately 850 galiens of 29% NH₄OH).
- STEP 5 Add: 2,110 pounds BARDEC PART 2 (Cuprous Oxide) as supplied; 1100 lbs. BARDEC PART 3 (Zinc Oxide) as supplied; 2016 lbs. Ammonium Bicarbonate (if used as powder).
- STEP 6 Agitate mix while sparging with air, noting temperature increase for two hours
- STEP 7 Add final Aqua-Ammonia as shown in Table I and continue agitation until temperature stops rising
- STEP 8 Withdraw a sample from the mix tank toward the end of the Step 7 agitation period. Allow the sample to settle for a few minutes and note if any metallic Copper is visible in the settlings. If there is, continue agitation with periodic samplings until no metallic copper is visible in the settling. When visible metallic copper is absent, test for the presence of unreacted copper by the AWPA test method. A negative test for unreacted metallic copper indicates the mix is completed.
- STEP 9 Add water, if necessary, to bring product to desired concentration.

Osmose Wood Preserving, Inc., 980 Ellicott Street, Buffalo, NY 14209, Phone (716) 882-5905, Fax (716) 882-5139

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Table 1

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Gallons of Water and Ammonia Depending on Ammonia Concentration						
Percent Ammonia	Step - 1 Water	Step - 2 Drum Wash Water	Step - 7 Final Ammonia			
10	1283	48	1512			
12	1 584	48	1270			
14	1736	48	1080			
16	1886	48	966			
18	1987	48	864			
20	2067	48	784			
22	2133	48	718			
24	2188	48	662			
26	2234	48	616			
28	2274	48	576			
30	2309	48	540			

ACCEPTED with COMMENTS In EPA Letter Dated

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the posticide registered under EPA Reg. No. <u>3 COY - 64</u>

Osmose Wood Preserving, Inc., 980 Ellicott Street, Buffalo, NY 14209, Phone (716) 882-5905, Fax (716) 882-5139