

6836-304

08-24-2007

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AUG 24 2007

Ms. Christina Swick
Agent for Lonza Inc.
Lewis & Harrison
122 C Street, NW
Suite 740
Washington, DC 20001

Subject: Carboquat WP-50
EPA Registration No.: 6836-304
Notification Date: July 26, 2007
EPA Receipt Date: July 27, 2007

Dear Mr. Sloan,

This letter acknowledges receipt of the following notification submitted under FIFRA section 3(c)9 and PR Notice 98-10.

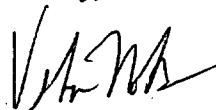
- Addition of Labeling Statement
- Update Company Address

General Comments

Based on a review of the submitted materials, the notification is acceptable and apart of the records on file.

If you have any questions regarding this letter, please contact Jacqueline McFarlane at (703) 308-6416.

Sincerely,



Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510C)

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Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other: NOTIFICATION

OPP Identifier Number
265394

Application for Pesticide - Section I

1. Company/Product Number 6836-304	2. EPA Product Manager Velma Noble	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Carboquat WP-50	PM# 31	
5. Name and Address of Applicant (Include ZIP Code) Lonza, Inc. 17-17 Route 208 Fair Lawn, NJ 07410 <u>PLEASE SEND ALL CORRESPONDENCE TO</u> <u>"CONTACT POINT" LISTED BELOW</u> <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(1), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

Amendment - Explain below. Final printed labels in response to Agency letter dated _____

Resubmission in response to Agency letter dated _____ "Me Too" Application

Notification - Explain below. Other - Explain below

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

Notification in Accordance With PR Notice 98-10

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Signature: Christina M. Swick Date: 7/26/07

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
*Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)

Name Christina M. Swick, Lewis & Harrison, 122 C St. NW, Suite 740, Washington, DC 20001	Title Agent for Lonza, Inc.	Telephone No. (Include Area Code) (202) 393-3903 x16
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Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received
(Stamped)

2. Signature <u>Christina M. Swick</u>	3. Title Agent for Lonza, Inc.
4. Typed Name Christina M. Swick	4. Date July 26, 2007

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

Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed or inhaled. Do not get in eyes, on skin or clothing. Do not breathe vapor. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Harmful if absorbed through the skin.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long-pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Protective eyewear (chemicals splash goggles or face shield)

Individuals who enter pressure treatment cylinders and other related equipment that are contaminated with the wood treatment solution (e.g., cylinders that are in operation or are not free of the treatment solution) must wear the following PPE: long-sleeved shirt and long-pants, chemical-resistant gloves, chemical resistant footwear plus socks, protective eyewear (chemical splash goggles or face shield) and a respirator with an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

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 and aquatic invertebrates. 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.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

Carboquat WP-50
Reg. No. 6836-304
EPA Notification dated 7-26-2007

NOTIFICATION
Date Reviewed: 8/24/07
Reviewed By: J. [Signature]

CARBOQUAT WP-50

Active Ingredients:

Didecyl dimethyl ammonium carbonate and Didecyl dimethyl ammonium bicarbonate50.0%

Inert Ingredients: 50.0%

TOTAL: 100.0%

Contains 7.9 lbs. of product per gallon at 25°C

**KEEP OUT OF REACH OF CHILDREN
DANGER**

FIRST AID	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a 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 inhaled:	<ul style="list-style-type: none"> • 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.
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.	

**SEE LEFT PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS**

EPA Registration No. 6836 - 304
EPA Establishment No. 6836-IL-1
Net Contents

Manufactured by
LONZA, Inc., 90 Boroline Road, Allendale, NJ 07401

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CARBOQUAT WP-50 is a concentrated biocide for use as a wood preservative. When used as directed, CARBOQUAT WP-50 will protect treated wood articles from the destructive attack of fungi, mold and mildew.

DIRECTIONS FOR USE

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

CARBOQUAT WP-50 is an end-use product that is intended to be used with registered alkaline copper wood preservatives. Prepare a use-solution (0.6 - 3.9% active) by mixing CARBOQUAT WP-50 with water and the copper product according to the attached mixing table. CARBOQUAT WP-50 can also be used alone or in combination with other EPA-registered organic and inorganic wood preservatives, provided that mixing is not inconsistent with the labeling of any product in the mixture. When used alone, prepare a 0.5-3.0% active use-solution of CARBOQUAT WP-50 in 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. When used as a moldicide in combination with other EPA-registered wood preservatives the active retention can be reduced to provide the required mold protection. A final vacuum should be used during treatment process to remove any excess treatment solution from surface of treated wood article. Consult the CARBOQUAT WP-50 Technical Bulletin for additional information.

DIP TREATMENT

Stack the wood to be treated on a suitable holder and convey the stack into the treating solution making sure that the stack is completely immersed. Dip times should range from 30 seconds (individual pieces) up to 30 minutes (bundled wooden articles). Use a concentration of 0.5-3.0% active didecyl dimethyl ammonium carbonate/bicarbonate; the concentration should be customized to the degree of sapstain protection desired, which should be determined by an independent test on the intended species of wood. When used as a moldicide the concentration can be reduced to provide the required mold protection.

SPRAY-BOX APPLICATION

For sapstain and mold protection only; a negative-pressure spraybox equipped with effective mist elimination may be used. Prepare the treating solution by adding 1 gallon CARBOQUAT WP-50 to 15 - 30 gallons of water. The concentration should be customized to achieve the degree of sapstain protection desired, which should be determined by an independent test on the intended species of wood. When used as a moldicide the concentration can be reduced to provide the required mold protection. Mix thoroughly to ensure uniform composition. Application rates will vary according to wood species and moisture content, temperature, humidity, storage conditions and inoculum pressure. Ensure that the treatment conditions are such that the wood articles are uniformly covered with the treating solution. Monitor spray booth mixtures to ensure proper concentrations are being maintained.

NOTE: CARBOQUAT WP-50 cannot be used to treat wood intended for direct continuous salt water (marine) immersion. Treated wood must be marked accordingly. In addition, CARBOQUAT WP-50 is not approved for treating wooden articles that are used or intended for use in the packaging of food or feed.

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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 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.

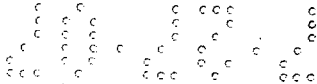
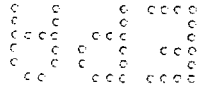
CONTAINER DISPOSAL:

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.

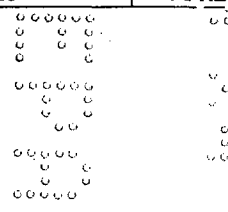


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Solution Mixing Table for Alkaline Copper and DDACarbonate (2 Component System)

Solution Strength %	Component Balance Actives Basis (%)		To Mix 1000 Gallons Solution Combine following Gallons of		
	Active CuO	DDACarbonate	9% Alkaline Copper	DDACarbonate (50%)	Water
0.60%	0.400%	0.200%	28.1	4.17	967.7
0.65%	0.433%	0.217%	30.5	4.52	965.0
0.70%	0.467%	0.233%	32.8	4.87	962.3
0.75%	0.500%	0.250%	35.2	5.23	959.6
0.80%	0.533%	0.267%	37.6	5.58	956.9
0.85%	0.567%	0.283%	39.9	5.93	954.1
0.90%	0.600%	0.300%	42.3	6.28	951.4
0.95%	0.633%	0.317%	44.7	6.64	948.7
1.00%	0.667%	0.333%	47.1	6.99	945.9
1.10%	0.733%	0.367%	51.8	7.70	940.5
1.20%	0.800%	0.400%	56.6	8.41	935.0
1.30%	0.867%	0.433%	61.4	9.12	929.4
1.40%	0.933%	0.467%	66.2	9.84	923.9
1.50%	1.000%	0.500%	71.1	10.55	918.4
1.60%	1.067%	0.533%	75.9	11.27	912.8
1.70%	1.133%	0.567%	80.7	11.99	907.3
1.80%	1.200%	0.600%	85.6	12.71	901.7
1.90%	1.267%	0.633%	90.5	13.43	896.1
2.00%	1.333%	0.667%	95.4	14.16	890.5
2.10%	1.400%	0.700%	100.2	14.89	884.9
2.20%	1.467%	0.733%	105.2	15.61	879.2
2.30%	1.533%	0.767%	110.1	16.35	873.6
2.40%	1.600%	0.800%	115.0	17.08	867.9
2.50%	1.667%	0.833%	120.0	17.81	862.2
2.60%	1.733%	0.867%	124.9	18.55	856.5
2.70%	1.800%	0.900%	129.9	19.29	850.8
2.80%	1.867%	0.933%	134.9	20.03	845.1
2.90%	1.933%	0.967%	139.9	20.77	839.4
3.00%	2.000%	1.000%	144.9	21.51	833.6
3.10%	2.067%	1.033%	149.9	22.26	827.8
3.20%	2.133%	1.067%	154.9	23.01	822.1
3.30%	2.200%	1.100%	160.0	23.76	816.3
3.40%	2.267%	1.133%	165.0	24.51	810.4
3.50%	2.333%	1.167%	170.1	25.26	804.6
3.60%	2.400%	1.200%	175.2	26.02	798.8
3.70%	2.467%	1.233%	180.3	26.77	792.9
3.80%	2.533%	1.267%	185.4	27.53	787.0
3.90%	2.600%	1.300%	190.6	28.29	781.2



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**Technical Bulletin
Carboquat WP-50
Wood Preservative for Pressure Treatment**

1. Introduction

Carboquat WP-50 is a 50% concentrate solution of Didecyl dimethyl ammonium carbonate and Didecyl dimethyl ammonium bicarbonate. It is a waterborne preservative used to protect wood articles from the destruction by fungal decay, mold and mildew. Carboquat WP-50 is to be applied only by wood preserving plants to pressure treat wood articles.

Wood articles treated with Carboquat WP-50 are appropriate for use in above-ground, ground contact and fresh water contact applications and resist attack by rot and fungal decay. Carboquat WP-50 cannot be used to treat wood intended for direct continuous salt water (marine) immersion. Restrictions and limitations will be included on the treated wood end tag.

2. Description of the Preservative System

Carboquat WP-50 is an end-use product, intended for sale to wood treating plants. It can be used alone or in combination with other EPA-registered organic and inorganic wood preservatives, provided that mixing is not inconsistent with the labeling of any product in the mixture. Registered alkaline copper wood preservatives are particularly appropriate to use with Carboquat WP-50 to produce a copper-quat mixture.

Carboquat WP-50 is shipped as a 50 percent concentrate. It must be diluted to a working strength of from 0.6 to 3.9 % active by mixing Carboquat WP-50 with water and the copper product before application. When used alone, prepare a 0.5 to 3.0% active use-solution of Carboquat WP-50 in water. A mix table for half-percent increments in concentrate is attached.

3. Materials to be Treated

Carboquat WP-50 is used to pressure treat the following materials:

- 3.1 Dimensional lumber and timbers of the following sapwood species:
Southern Pine, Ponderosa Pine, Red Pine, Radiata Pine and Caribbean Pine;
- 3.2 Dimensional lumber and timbers 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-8 in all listed species for decking use only;
- 3.4 Southern Pine and Douglas-Fir plywood;
- 3.5 Round and sawn posts and building poles of Southern Pine, Ponderosa Pine, Red Pine, Douglas-Fir, Hem-Fir and Western Hemlock.

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Minimum preservative retention levels are provided below in Table 1.

Table 1
Minimum Preservative Retention Requirements
for Wood Treated with
Carboquat WP-50 Articles by End Use

End Use	Min. Activities ¹ Retention of CuO + quat pcf (Kg/m ³)	Min. Activities ¹ Retention of quat pcf (Kg/m ³)
Above Ground - General Use	0.25 (4.0)	0.08(1.32)
Decking & Specialties Use - Above Ground		
Sapwood Species Listed in Section 3.1	0.15 (2.4)	0.05 (0.80)
Heartwood Species Listed in Section 3.2	0.25 (4.0)	0.08 (1.32)
Ground & Fresh Water Contact	0.40 (6.4)	0.13 (2.11)
Critical Structural Members	0.60 (9.6)	0.20 (3.20)
Wood Foundation Systems	0.60 (9.6)	0.20 (3.20)

Table 1 Note:

¹ Pounds of preservative per cubic foot of wood.

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, timber, and plywood shall be marked to indicate the intended end use "above ground," "ground & fresh water contact" identifying both the preservative and the specified retention.

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:

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.

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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 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.

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 minimum preservative retention levels to ensure adequate preservation are shown above in **Table 1**.

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 Carboquat WP-50.

6. Installation and Application

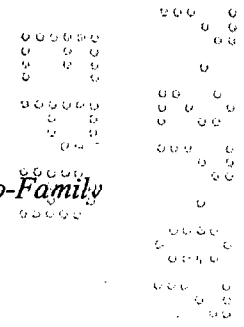
Wood articles pressure treated with Carboquat WP-50 are installed as preservative-treated lumber timbers and plywood in accordance with requirements of the applicable *Code*. The industry published installation instructions for wood and pressure-treated wood shall be strictly adhered to.

Wood articles pressure treated with Carboquat WP-50 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 and ground contact applications. Typical applications are listed below in **Table 2**.

Surface treat cut ends with appropriate registered preservative solution.

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

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



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Table 2
Typical Applications
for Carboquat WP-50 Pressure Treated Wood Articles

Service Conditions	Typical Applications
Above Ground	Decking, Rails, Spindles, Trim and Fascia, Framing, Flooring, Sill Plates, Trellises, Gazebos, Fencing
Ground & Fresh Water Contact	Deck & Dock Support Posts, Fence Posts
Critical Structural	Permanent Wood Foundations, Building Poles

Structural - The maximum load duration factor allowed for structural articles pressure-treated with Carboquat WP-50 shall be 1.6 in accordance with section 2.3 of the **AFPA, National Design Specification for Wood Construction**.

