

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

OFFICE OF PREVENTION PESTICIDES AND TOXICS BSTANCES

NOTIFICATION

APR 2 0 2007

APR 2 0 20 J7

Vincent Opaskar Technical Manager Quality Borate Company 3690 Orange Place, Suite 495 Cleveland, OH 44122

SUBJECT: Application for Pesticide Notification - New Pkg. Size, Clarified Instructions, etc.

BoraSol Liquid

EPA Reg. No. 69529-3

Application Dated April 20, 2007

Dear Mr. Opaskar:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Terri Stowe of my staff at 703-305-6117.

Sincerely,

Linda Arrington

Notifications & Minor Formulations Team Leader Registration Division (7505P)

Office of Pesticide Programs

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PrintForm

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4. Company/Product (Na. Quality Borate Co. / Bo	ne) oraSol Liquid		PM# #10]
Quality Borate Co. 3690 Orange Place, #4 Cleveland, Ohio 44122		ļ	(b)(i), my product i to:	is similar or ide	ntical in co	FIFRA Section 3(c)(3) emposition and labeling
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1. Contact Point Comple	ete items directly below for identi	ification of individ	hai to be contected,	if necessary, to	process this	application.)
Name Vincent Opaskar		Title			Telephone	No. (Include Ares Code)
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Vincent Opaskar

EPA Form 8570-1 (Rev. 3-34) Previous editions are obsolate.

4/20/2007

Yellow - Applicant Co

White - EPA File Copy (original)



Document Processing Desk 7504P Office of Pesticide Programs U.S. Environmental Protection Agency 1200 Pennsylvania Ave, N.W. Washington, DC 20460 APR 2 0 2007

April 20, 2007

Dear Sir or Madam:

This letter is a Notification Application for Borasol Liquid (69529-3) per 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 APR 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.

This letter transmits a request for a Notification for the current registered label for Borasol Liquid (69529-3). In the original Notification request, which has already been approved (11/15/2006), the redundant mixing instruction charts were eliminated from the existing label. A new single simplified chart with more concise instructions for mixing was substituted. The new instructions for mixing correspond to new packaging sizes (already approved by the Notification procedure). The container originally chosen for the 11.2 pound size of product, was found to leak due to its lack of strength when tested. A new more robust container was substituted. The new container has a smaller "footprint" and thus the rinsing mark had to be raised from 4.25 inches to 5 inches. This change insures that the final volume of the ready to use 15% solution will indeed measure four gallons. The step by step mixing instructions have been clarified using better English.

A copy of the new text in the previously approved label format is included. This amendment falls under the Notification Procedure, 98-10 M-1 & M-2.

Also included is a copy of the proposed new label in its entirety with the requested corrections in their appropriate locations.

3690 Orange Place, Suite 495, Cleveland, OH 44122 Toll Free 1-866-BORATES (1-866-267-2837); Fax 1-216-464-8619

Mixing Instructions

A 15% DOT solution is used for preventative treatment for existing structures, pre-treatment of wood during construction or remedial treatment for insect or fungus infested wood. The 15% DOT solution is made from Borasol Liquid using the following set of instructions.

For Mixing 1:3 Mixing Ratio (One part BoraSol Liquid to 3 parts Water)

- Determine the number of gallons of 15% DOT solution to be prepared by first determining the number of square feet of wood to be treated and dividing by 200 sq ft/gal.
- 2. Using the table below, determine the appropriate size(s) of BoraSol Liquid product container(s) to use and choose the rinse volumes to be used.
- 3. Empty the contents of the container(s) into an appropriately sized mixing vessel.
- 4. Triple rinse the BoraSol Liquid container with the chosen amounts of rinse water from the table. Shake the rinses well to loosen and dissolve any residual BoraSol Liquid material and add to the mixing vessel. Use of hot water will hasten the dissolution process.
- 5. Mix the contents of the mixing vessel using an electric drill until the BoraSol Liquid is dissolved (warm water) or uniformly dispersed (cold water).

Table of Mixing

	Summary of Mi	xing Instructions		
Volume of 15% DOT	1 gal RTU	2 gal RTU	4 gal RTU	
Solution (or 30%	(200 sq ft)	(400 sq ft)	(ft pe 008)	
BoraSol Liquid)			·	
BoraSol Liquid contents	2.8 lbs, 33 fl.oz quart unit	5.6 lbs, 66 fl.oz. ½ gal unit	11.2 lbs, 132 fl.oz. gal unit	
Volume of Each of 3 Rinses	0.25 gal (1 quart) OR	0.5 gal OR	1 gal OR	
	32fl oz OR	64 fl oz OR	128 fl oz OR	
	950 ml, 0.95 liters OR	1920ml, 1.9 liters OR	3780ml, 3.8 liters OR	
	3.25" of water in the	6.5" of water in the	5" of water in the	
	BoraSol Liquid	BoraSol Liquid	BoraSol Liquid	
	container	container	container	

Sincerely,

Vincent Opaskar

Vincent C, Opachan

3690 Orange Place, Suite 495, Cleveland, OH 44122 Toll Free 1-866-BORATES (1-866-267-2837); Fax 1-216-464-8619

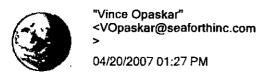


APR 20 2007

Fax Transmission

*********** To:	Terri Stowe	Date:	4/20/2007
Company:	US EPA		
Fax:	703-305-6920	Phone:	1-866-BORATES (866-267-2837
From:	Vince Opaskar	Fax:	216-464-8619
Subject:	BoraSol Liquid 69529-3		Pages: 4
*********	;*************************************	F*****	***********************
Dear Ms Stow	e :		
Thank you for	your extra effort in expediting this of	episode. It is gr	eatly appreciated.
Thank you for	your extra effort in expediting this of	episode. It is gro	eatly appreciated.
I have faxed th	your extra effort in expediting this one signed 8570-1 form, because it call disconnally go in the "Explanation"	nnot be saved el	
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I have faxed the letter that wou Electronically in use approve Notification) v	ne signed 8570-1 form, because it can ld normally go in the "Explanation" (email) pieces will include the letter d label from October, 2003 and the l	nnot be saved elentry area. from the "Explatest revised lab	ectronically. I have also faxed the anation" area, a copy of the currencel (the topic of the initial
I have faxed the letter that wou Electronically in use approve Notification) v	ne signed 8570-1 form, because it can ld normally go in the "Explanation" (email) pieces will include the letter d label from October, 2003 and the letter with the appropriate new mixing instr	nnot be saved elentry area. from the "Explatest revised lab	ectronically. I have also faxed the anation" area, a copy of the currencel (the topic of the initial

3690 Orange Place, Suite 495, Cleveland, OH 44122 Toll Free 1-866-BORATES (1-866-267-2837); Fax 1-216-464-8619



To Terri Stowe/DC/USEPA/US@EPA CC bcc

NOTIFICATION

APR 20%

Subject BoraSol Liquid 69529-3

Dear Ms. Stowe,

Attached are the two forms of the BoraSol label: The original 2003 version and the latest 2007 version with the new mixing instructions. The "explanation" letter is also transmitted electronically.

Thank you for your efforts.

Sincerely

Vince Opaskar **Technical Manager** Quality Borate Co. 3690 Orange Place, #495 Cleveland, Ohio 44122 (216)-896-1949 vopaskar@qualityborate.com

BoraSol Liquid Label with NEW Mixing Instructions REVISED.doc

Borasol Liquid EPA Label (approved reconstructed from booklet)).pdf

NOTIFICATION

APR 2 0 2007

BoraSol Liquid

Manufactured by: Quality Borate Co., 3690 Orange Place, #495 Cleveland, OH 44122

Phone: 1-866-BORATES (866-267-2837)

FOR PROTECTION AND PREVENTATIVE TREATMENT OF WOOD AGAINST TERMITES, REMEDIAL CONTROL OF SUCH PESTS IN INFESTED WOOD, PRESSURE TREATMENT AND DIP-DIFFUSION TREATMENT.

ACTIVE INGREDIENT:

EPA Reg. No. 69529-3 EPA Est. No. 68476-OH-003

(10.9 lbs/gallon)

KEEP OUT OF REACH OF CHILDREN

Precautionary Statements:
Hazards to humans and domestic animals

CAUTION

Harmful if swallowed. Avoid contact with eyes. Wash thoroughly after handling. Avoid contamination of food and feed. Do not leave container where children or animals may gain access. Have the product or label with you when calling a Poison Control Center or Doctor or going for treatment. In case of emergency, for additional information call (866-267-2837).

	FIRST AID
If swallowed	-Call 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 the poison control center or doctor.
	-Do not give anything by mouth to an unconscious person.
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 eye.
	-Call a poison control center or doctor for treatment advice.
If on skin or	- Rinse skin with plenty of water for 15-20 minutes.
clothing	-Take off contaminated clothing.
	-Call poison control center or doctor for additional treatment advice.
If Inhaled	Move person to fresh air.
	-If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to—mouth, if possible
	-Call a poison control center or doctor for further advice

Personal Protection Equipment

Applicators and other handlers must wear a long-sleeved shirt and long pants which cover the entire arm and leg skin surface, socks, water resistant boots, chemical resistant gloves, and chemical resistant protective eyewear – splash goggles are recommended. When applying this product in confined spaces such as crawl spaces and attics, a ventilation exhaust system is recommended. If this is impractical, the use of a NIOSH approved respirator designed for dusts/mists is recommended. Clean spills and over-spray with a clean damp cloth or use an absorbent. Dispose of spill as required by state guidelines and laws.

DIRECTIONS FOR USE: It is a violation of Federal Law to use this product in a manner inconsistent with it's labeling. Do not apply to foamboard. Do not use in edible product areas of food processing plants or on counter tops and other surfaces where food is prepared. Do not use in serving areas where food is exposed. Do not contaminate feed, water or food. Do not use to treat lumber that will contact soil or be exposed to leaching by weather. Do not apply in classrooms when in use. Do not use in aircraft cabins. Do not apply to patient rooms in hospitals and nursing homes while occupied. Do not apply directly to food. In a nonfederally inspected meat and poultry plant and food-processing establishment, the facility must not be in operation when this product is used. Exposed food should be covered or removed prior to the application. Thoroughly wash all food processing surfaces before reuse. After application in bakeries, meat packing plants, food processing plants, cafeterias, and similar facilities, wash all benches, shelving equipment etc. where exposed food will be handled with an effective cleaning compound followed by a potable water rinse to remove all traces of contamination.

This product cannot be tank mixed with other pesticide products. In the home, remove or cover exposed food, food handling surfaces, and cooking utensils. Wash thoroughly after treatment and before reuse. When spraying overhead interior areas of homes, apartments buildings, and all other dwellings, cover or protect all surfaces below the area being treated with plastic sheeting or other material which can be disposed of if contamination from dripping or splashing occurs. Use of this product does not substitute for mechanical alteration, soil treatment or foundation treatment, but is merely a supplement that is used as a preventative or remedial treatment to protect treated wood only.

GENERAL INFORMATION

BoraSol Liquid is a water-soluble inorganic borate salt with termiticidal properties. BoraSol Liquid is effective for the protection and remedial treatment of wood against wood-destroying organisms, including the target pests listed below. This product can be used for <u>remedial treatment</u> of wood infested with target organisms, for <u>preventative treatment</u> of wood in existing structures (before signs of infestation), for <u>pre-treatment</u> of wood during construction, for the <u>pressure treatment</u> of lumber and for the <u>dip-diffusion</u> of lumber.

TARGET ORGANISMS

BoraSol Liquid is effective for treatment of wood (and wood-foam composite structural components) against wood-infesting insects, including the following termites.

Subterranean Termites

Reticulitermes, Heterotermes,

Coptotermes (Formosan)

Dampwood Termites
Zootermopsis

Powderpost Beetles

Lyctidae, Anobiids,

Bostrichidae, Cerambycidae

Carpenter Ants

Camponotus

Wood Decay Fungi

This label is for End-Use Applications Only.

WOOD

BoraSol Liquid is recommended for wood materials in accordance with the specific treatment methods described below. BoraSol Liquid is effective for interior and exterior wood (and wood-foam composite structural components) that will be protected from excessive rain and not in direct contact with soil. Types of wood include, but are not limited to, all types of lumber, logs, and plywood. This product is toxic to wood-destroying insects, but surface etching of treated wood may occur.

Mixing Instructions

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Table of Mixing

Summary of Mixing Instructions							
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Solution (or 30%	(200 sq ft)	(400 sq ft)	(800 sq ft)				
BoraSol Liquid)							
BoraSol Liquid	2.8 lbs, 33 fl.oz. 5.6 lbs, 66 fl.oz. 1/2		11.2 lbs, 132 fl.oz.				
contents	quart unit	gal unit	gal unit				
Volume of Each of 3	0.25 gal OR	0.5 gal OR	1 gal OR				
Rinses							
	32fl oz OR	64 fl oz OR	128 fl oz OR				
	950 ml, 0.95 liters	1920ml, 1.9 liters OR	3780ml, 3.8 liters OR				
	OR						
	3.25" of water in the	6.5" of water in the	5" of water in the				
	BoraSol Liquid	BoraSol Liquid	BoraSol Liquid				
	container	container	container				

I. PREVENTATIVE TREATMENT FOR EXISTING STRUCTURE

Spray applications of BoraSol Liquid may also be made for existing structures. A 30% aqueous solution of BoraSol Liquid (15% Disodium Octaborate Tetrahydrate) is used for treatment.

Apply solution to all accessible surfaces of bare wood at a rate of approximately 5 gallons per 1000 square feet (500 linear feet). For adequate penetration, treatment should be conducted a second time after surface has dried. This should include all wood surfaces in crawl spaces and basements, to include all sills, plates, floor joists, piers, girders and sub floors as well as wood exposed to vertical access from the soil. Avoid spraying electrical components. Be sure electricity is turned off until solution is completely dry. Protect treated wood from excessive rain. Use of this product does not substitute for mechanical alteration, soil or foundation treatment, but is merely a supplement that is used as a preventative treatment to protect treated wood only.

II. PRETREATMENT FOR WHOLE HOUSE PROTECTION

Spray applications of BoraSol Liquid may also be made to wood during new construction. A 30% aqueous solution of BoraSol Liquid (15% Disodium Octaborate Tetrahydrate) is used for treatment. Use the <u>Table of Mixing</u> above for solution preparation.

A. Buildings on crawl spaces and Basements: Apply two (2) coats of BoraSol Liquid (1:1) solution to point of wetness in a 24 inch wide uninterrupted band to all wood surfaces in crawl spaces and basements, to include all sills, plates, floor joists, piers, girders and sub floors as well as wood exposed to vertical access from the soil. Treat any wood adjacent to plumbing, electrical conduit and ducts where they penetrate sub floors or plates, and all wood next to porches, garages, and fireplaces in order to provide a two (2) foot wide barrier of BoraSol Liquid treatment against termite penetration.

Wait at least 20 minutes between applications. If accessible, treat the exterior of sill areas around the entire perimeter of the structure with a 24 inch wide band of BoraSol Liquid solution beginning with the sill area and extending upwards unto the sheathing material.

On multiple story structures, treat only the first story above the masonry foundation level. Coated or painted wood may be treated by pressure injecting BoraSol Liquid into holes drilled into the wood at eight (8) to ten (10) inch intervals. Inject at 40 psi for four (4) to six (6) seconds per hole.

B. Buildings on slabs: Apply two (2) coats of BoraSol Liquid solution to all base plates and the bottom 24 inches of all studs on all exterior and interior walls. Wait at least 20 minutes between applications. Treat all wood in plumbing walls and apply to any wood in bath traps as well as wood adjacent to plumbing, electrical conduit and duct penetrations in order to provide a minimum 24-inch wide barrier of treatment between the soil and the balance of the structure.

III. REMEDIAL TREATMENT FOR INFESTED WOOD

PREPARATION OF TREATMENT SOLUTION

A 30% aqueous solution of BoraSol Liquid (15% Disodium Octaborate Tetrahydrate) is used for treatment. Use the Table of Mixing above for solution preparation.

REMEDIAL APPLICATION OF SOLUTION

For remedial control of organisms attacking wood, apply the 15% aqueous solution of BoraSol Liquid by brush or spray until surface is thoroughly wet (approximately 5 gallons per 1000 square feet or 500 linear feet). For adequate penetration, treatment should be conducted a second time after surface has dried. Treatment should include the crawl space, slab, basement, attic and all void constructions. Application may also be made by drilling and then injecting the solution under pressure into sound wood or until run-off is observed from entry/exit holes of infested wood. This product should be applied only to treat bare wood, plywood, and particleboard where an intact water repellent such as paint, stain, or a sealer is not present. Be sure to check the wood for structural integrity as this product does not enhance or provide structural integrity to treated wood. Do not use this product on wood in contact with the soil. Remedial treatment should result in a retention of 0.25 lb/ft³ (4.0 kg/m³).

For treating infected wood thicker than one inch, you must inject the BoraSol Liquid solution into the wood in addition to spraying.

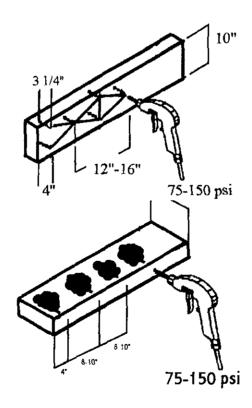
- Injection holes (1/8 inch in diameter) should be drilled in the area of suspected infestation. The holes should be drilled in a diamond pattern with the long axis along the grain and the holes spaced every 12 to 16 inches. Holes should be spaced 4 to 6 inches across the grain (see figure 1). When possible the wood should be treated one diamond pattern beyond the immediate area of visible infestation.
- Drill the holes through the widest dimension available. Do not drill completely through the beam, leave about ¾ inch undrilled (See figure 1). If the widest surface is not accessible, holes can be drilled in the narrower surface. If the diamond pattern cannot be used. Drill

- holes 8-10 inches apart. All holes should no deeper than the injection tip. A longer injection tip should not be used (See Fig. 2).
- Press and hold the injection tip firmly into each hole and inject solution until runoff is observed from other holes, galleries, etc. When injecting solid wood maintain the injection pressure for 15 to 60 seconds at each hole. Longer times give better penetration.
- Release the trigger, wait briefly, and withdraw the injection tip. Excess solution can be absorbed with paper towels and collected for disposal.
- BoraSol Liquid solutions are compatible with stainless steel, brass and all plastic components of spray equipment.
- Equipment should be rinsed with clear water to flush remaining BoraSol Liquid out of equipment. The rinsate should be saved and treated as clean water to make up future BoraSol Liquid solutions or disposed in accordance with local regulations.

Example: Treat an infestation in a structural beam with nominal 4x10 inch dimensions.

- Each hole is drilled approximately 3.25" deep in the diamond pattern shown.
- Solution is injected under pressure (75-150 psi) for 15 to 60 seconds in each hole.
- If a gallery is directly penetrated, solution should be injected until runoff is detected from other holes. Wood surrounding the gallery should also be pressure injected. Treat "one diamond" length beyond the suspected area of infestation when possible.

Drill and pressure injection of a 4" x 10" structural beam



Alternative pressure treatment of a 4" x 10" structural buam.

- A. Basements and Crawl Spaces may be treated by applying BoraSol Liquid solution to the point of wetness to all infested and susceptible wood surfaces including sill plates, piers, girders, sub-floors, floor joists and any wood exposed to vertical access from the soil. A second coat of BoraSol Liquid should be applied for adequate protection. Wait at least 20 minutes between applications. Apply at a rate of approximately one (1) gallon of a BoraSol Liquid solution per 200 square feet of floor area.
- B. Buildings on slabs may be treated by applying a 30% BoraSol Liquid solution into wall voids by locating each stud and drilling a small hole through the wall covering to gain access to the infested area. Drill holes adjacent to the side of each stud every 18-24 inches along its length and inject at least 1/3 fluid ounce of BoraSol Liquid solution per hole. Drill at least one hole per stud bay near the floor in order to treat the base plate in each void. Treat entire wall areas as opposed to single stud bays in order to include the infested area completely within the treatment zone. A second treatment application is required to assure adequate protection.
- C. Wood flooring can be treated by spray, brush or roller application. It will be necessary to remove any existing finish by complete coarse sanding or stripping prior to application. Apply a 30% BoraSol Liquid solution at a rate of approximately one (1) gallon of solution per 200 square feet of floor surface. For adequate protection, two (2) coats may be required, waiting at least one (1) hour between applications. Allow floor to completely dry (typically 48-72 hours). Moisture content must be 10% or less before applying final finish. BoraSol Liquid applications may raise the grain of the wood and an additional light sanding may be necessary before applying a new finish. Although BoraSol Liquid is compatible with most floor coatings, always test a small section of treated floor with the new finish and check for appropriate adhesion prior to coating the entire floor. NOTE: If residue is evident after 72 hours of drying time, wash affected area with clean water and a mop, cloth or sponge, rinsing frequently. Allow surface to dry prior to final light sanding and application of finish coat.

End cut treatment

Certain pressure treated lumber should be treated when cut at a construction site because typical wood preservatives do not penetrate some wood species effectively. Spray, brush or dip the end-cuts over a plastic drop cloth to collect any runoff. Spray or brush generously until the wood will accept no more solution. Alternatively, dip each end-cut for about 5 minutes.

Estimating amounts for application

Calculating the amount of BoraSol Liquid to be used for a particular treatment is important. Approximately 1 gallon of BoraSol Liquid solution will be needed to treat 206 sq. ft. of wood surface area. You should always try to avoid extra, leftover solution. There are some predetermined factors which you can use as multipliers for given situations to calculate the

square footage of wood to be treated. For example, if you had to spray a piece of wood that was 10 feet long and 6 inches wide, one side of the piece of wood will be 5 sq. ft. of wood surface area (10 ft x 0.5 ft. = 5 ft.2). If you spray all four sides once, the total square footage would be 20 ft.² requiring 0.1 gallons of solution.

When calculating square footage of wood surface area in a crawl space or basement, you have to consider all the wood preset. The calculations are easily done. First, determine the square footage of the crawl area, by multiplying the length by the width, i.e., a 20 ft. x 40 ft. crawl space is 800 sq. ft. Multiply this by 2.5 and the result is an approximation of the total square footage of wood surface area for all the wood in the crawl space. Therefore, a 20 ft. x 40 ft. crawl area would be 2000 sq. ft. needing 10 gallons of BoraSol Liquid solution for one application.

In estimating the amount for a preventative treatment, there are many sections to consider: attics, interior walls, exterior walls and flooring. The guideline to use here is to obtain the square footage for the living area of the structure from the builder and multiply by 9. If a crawl space or basement is involved, then use the calculations above and add that number to the amounts calculated here. For example, the structure to be treated will be 2000 sq. ft. and have a 20 ft. x 40 ft. crawl space. Wood surface area is 2000 multiplied by 9, equaling 18000 sq. ft. Add the 2000 sq. ft. for the crawls space to get 20,000 sq. ft. of wood surface to be treated. This is 100 gallons of BoraSol Liquid solution per application.

PRESSURE TREATMENT

Pressure treatment of wood should result in a retention of 0.25 lb/ft³ (4.0 kg/m³) DOT (equiv.) in the assay zone specified in AWPA standard C-2. The concentration of the solution must be adjusted to give the correct retention for wood species and size being treated; in general, solutions are in the range of 1-2% DOT (equiv.) (0.083-0.166 lb/gal) w/v. Standards C-1 and C-2 of the American Wood Preservers' Association should be consulted regarding treatment times, pressures and temperatures necessary for various species of wood.

Board Feet	500	1000	2000	3000	5000	10,000
Wood (cubic feet)	41.7	83.3	166.7	250.0	416.7	833.3
Water (gallons)	62.7	125.4	250.8	376.2	627.0	1,254.0
Water (lbs)	520.4	1,040.8	2,081.6	3,122.5	5,204.1	10,408.2
BoraSol Liquid (gal.)	2.1	4.2	8.3	12.5	20.8	41.6
BoraSol Liquid (lbs)	21.0	42.0	84.0	126.0	210.0	420.0
Equiv. DOT (lbs)	10.5	21.0	42.0	63.0	105.0	210.0

Clean wood should be cut to dimension, dried to less than 25% moisture (as oven dry weight), stickered before treating. If several species are being treated at the same time, the treatment schedule should be chosen for the most difficult species to treat. If both served and heartwood are included, use the schedule for heartwood to ensure adequate loadings.

DIP-DIFFUSION TREATMENT

PREPARATION OF SOLUTIONS: To prepare solutions, described below, water should be added to the tank to about 80% of the volume of solution required. The temperature is then raised to the desired level and the calculated amount of BoraSol Liquid is gradually added with good agitation. The remaining water is then added and the solution agitated for an additional 10 minutes to insure that the product has dissolved. The temperature of the solution should be maintained during treatment. Upon cooling some BoraSol Liquid may crystallize out of the solution, but will re-dissolve when the solution is heated for the next treatment session. In very cold weather, some heating or insulation should be provided to prevent solidification in the bottom of the tank. The tank should be covered when not in use to prevent contamination and evaporation of water.

Conditions and Solution Strengths for the Dip-Diffusion Method

Lumber Thickness	Pounds of BoraSol Liq. Per Gallon of Water	Gallons BoraSol Liq.	Pounds of DOT (equiv.)	DOT (equiv.) Solution Conc.	Solution Temp.	Time of Diffusion
Up to 1 inch (2.5 cm)	4.0	0.40	2.0	16.2%	105°F (40°C)	2 to 4 weeks
1 to 1.75 in. (2.5 to 4.0 cm)	6.0	0.60	3.0	21.0%	120°F (50°C)	4 to 6 weeks
1.75 to 2.5 in. (4.0 to 6.5 cm)	12.0	1.2	6.0	29.6%	130°F (55°C)	4 to 6 weeks
2.5 to 3 in.* (6.5 to 7.5 cm)	15.0	1.5	7.5	32.2%	135°F (57°C)	6 to 8 weeks

 Lumber over 3 inches (7.5 cm) in thickness or over 5 inches (12.5 cm) in width should be dipped twice 24 to 72 hours apart.

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DIP-DIFFUSION METHOD OF APPLICATION: Dip freshly cut lumber in a tank containing a hot aqueous solution of BoraSol Liquid for 2 to 5 minutes. After dipping, the newly treated wood should be stacked and stored under a tarpaulin or shed roof to slow the drying process and prevent wash-off by rainfall, thus improving penetration. Diffusion of the wood preservative into the interior of the wood will start immediately and will require several weeks to thoroughly penetrate the lumber, depending on species and thickness of wood. The dip-diffusion of lumber should result in a retention of 0.25 lbs/ft³ (4.0 kg/m³) DOT (equiv.)

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water 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

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

STORAGE: Store in a dry place. Do not store where children or animals may gain access.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

NOTICE

Neither manufacturer nor seller shall be liable in respect to any injury or damage suffered by reason of the use of this product for a purpose not indicated by the label or when used contrary to the directions or instructions hereon nor with respect to breach of any warranty not expressly specified herein. Buyer accepts this material subject to these terms, and assumes all risk of usage and handling except when used or handled in accordance with this label. For active termite infestations, get a professional inspection.