

# BORA-CARE INJECTABLE CONCENTRATE

For the Prevention and Elimination of  
TERMITES, CARPENTER ANTS, WOOD DESTROYING BEETLES  
and DECAY FUNGI

Long Lasting Protection for Wood in Contact with the Ground

Authorized by the USDA for use on Non-Food Contact Surfaces in Edible Product Areas of Official Establishments Operating under the Meat, Poultry, Shell Egg Grading and Egg Products Inspection Programs

## ACTIVE INGREDIENT:

Disodium Octaborate Tetrahydrate ( $\text{Na}_2\text{B}_8\text{O}_{13} \cdot 4\text{H}_2\text{O}$ )

40.0%

## INERT INGREDIENTS

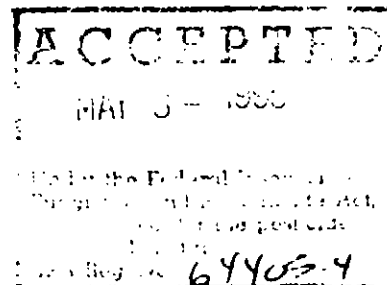
60.0%

Density: 11.51 pounds per gallon

EPA Reg. No. 64405-4

EPA Est. 64405-TN-1

U.S. Patent No. 5,104,664



NET CONTENTS: \_\_\_\_\_ GALLONS

KEEP OUT OF REACH OF CHILDREN

## CAUTION

### PRECAUTIONARY STATEMENTS

#### Hazards To Humans & Domestic Animals

**CAUTION:** Harmful if inhaled. Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Avoid contamination of food and feed. Do not leave container where children or animals may gain access.

#### Statement of Practical Treatment

**If inhaled:** Remove victim to fresh air. Apply artificial respiration if indicated. Contact a physician if warranted. **If In Eyes:** Flush with plenty of water. Get medical attention if irritation persists. **If On Skin:** Remove contaminated clothing and wash skin with soap and water. Wash clothing prior to reuse.

IN CASE OF A MEDICAL EMERGENCY involving this product call (800) 525-9083 or your local Poison Control Center.

#### Environmental Hazards

BORA-CARE IC carelessly spilled or applied to cropland or growing plants, including trees and shrubs, may kill or seriously retard plant growth. Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

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## DIRECTIONS FOR USE

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

## 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. Do not freeze.

**PESTICIDE DISPOSAL:** Do not contaminate water when disposing of equipment washwaters. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

## NOTICE

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" statement found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under WARRANTY LIMITATIONS AND DISCLAIMER.

The use of this product in food processing establishments should be confined to time periods when the plant is not in operation. Foods should be removed or covered during treatment. All food processing surfaces should be covered during treatment or thoroughly cleaned before using. After treatment in food processing plants, thoroughly wash all equipment, benches, shelving, etc., where exposed food will be handled with an effective cleaning compound and rinse with potable water.

## SAFE HANDLING PROCEDURES

The use of chemical splash goggles and solvent resistant gloves is advised. Spills may be cleaned with a damp cloth or absorbed with appropriate materials. When applying BORA-CARE in confined spaces, it is recommended that ventilation or an exhaust system be provided. If this is impractical, the use of a NIOSH approved respirator designed for protection from organic vapors is recommended. (Refer to the BORA-CARE Material Safety Data Sheet for additional health and safety information.)

## GENERAL INFORMATION

BORA-CARE IC (Injectable Concentrate) is highly concentrated to provide a long lasting reservoir of active borate ingredient to wood, particularly in high risk or moist areas. Because of its high concentration and controlled diffusion rate, BORA-CARE IC is recommended for treating wood in contact with the ground or soil. BORA-CARE IC will eliminate existing wood destroying insect and fungal infestations and provide residual protection against:

Subterranean Termites: Reticulitermes, Heterotermes

Formosan Termites: Coptotermes

Dampwood Termites: Zootermopsis, Neotermes

Drywood Termites: Kaloterms, Incisitermes

Power Post Beetles: Lyctidae, Bostrichidae

Anobiid Beetles: Anodiidae

Old House Borers, Longhorn Beetles: Cerambycidae, Hylotrupes

Ambrosia Beetles: Platypodidae, Scolytidae

Carpenter Ants: Camponotus

Brown Rot, White Rot and Wood Decay Fungi including:

Antrodia sinuosa • Antrodia xantha • Aspergillus amstelodami • Aspergillus niger •  
Aureobasidium pullulans • Basidiomycete • Bisporia pusillas 132 • Ceratocystis pluriannulata •  
Ceratocystis picea • Chaetomium globosum keinze • Coniophora cerebella • Coniophora  
olivacea • Coniophora puteana • Fomes lividus • Fomes officinalis • Fomes pini •  
Fomes pinicola • Gloeophyllum abietinum • Gloeophyllum sepiarium • Gloeophyllum trabeum •  
Hericium abietis • Heterobesidion annosum • Lentinus lepideus • Lenzites trabea •  
Merulius lacrymans • Ophiostoma coeruleum • Paecilomyces varioti • Phialophora sp •

Phialophora fastigiata • Phialophora haffmannii • Phialophora heteromorpha •  
Phialophora lignicola • Phialophora lueto-olivacea • Phoma herbarum • Phoma lanosa  
Polyporus abietinus • Polyporus rugulosus • Polyporus sulphureus • Polyporus tomentosus  
Polyporus versicolor • Polystictus versicolor • Poria carbonica • Poria incrassata •  
Poria monticola 698 • Poria nigrescens 4856 • Poria placenta • Poria subacida •  
Poria vaillantii • Poria vaporaria • Poria xantha • Rhinocleriella sp. • Sclerophoma pityophila  
Serpula lacrymans • Sistotrema brinkmanii • Stachbotrys atra corda • Stereum abietinum •  
Torula sp. • Trametes lilacino-gliva • Trametes serialis • Trichocladium asperum

BORA-CARE IC contains 40% by weight disodium octaborate tetrahydrate, a combination of borax and boric acid formulated in a patented carrier system which facilitates rapid penetration throughout wood of any moisture content. BORA-CARE IC is particularly suited for treatment of wood which is coated with a water repellent finish or is in ground contact, such as fence posts and utility poles. It is not necessary to remove any wood finish prior to injection of BORA-CARE IC.

**NOTE:** If any wood member's structural integrity has been reduced to the extent that repair or replacement is necessary, repairs and/or replacement should be made. BORA-CARE IC does not add structural integrity to previously damaged wood.

## I. APPLICATION METHODS

BORA-CARE IC is designed for application to wood by injection into voids, checks, cracks, pre-drilled holes, or injection sleeves designed for this purpose. In order to facilitate re-application in high risk areas, a plug of material such as cork, rubber, wood, caulk, or an injection sleeve should be used to seal the injection site. The use of injection sleeves allows for easier, subsequent applications and also permits injection under pressure in order to increase the volume of BORA-CARE IC applied per injection site.

BORA-CARE IC can be injected through any wood surface coating. Injection sites may be placed in either a staggered, linear, or angled pattern. BORA-CARE IC should be injected throughout the infested area and for at least 6 inches on either side of wood showing any signs of infestation.

Injection holes should be spaced at even intervals throughout the infested area to provide the best distribution of BORA-CARE IC. Drill holes at a downward angle to help retain liquid in place while sealing hole or use a valved injection sleeve to confine liquid to the injection site. If a long section of a beam or member is being treated, do not exceed a 24 inch spacing between holes.

## II. APPLICATION STEPS

1. Measure the dimensions and length of the zone of wood to be treated. If the zone has an active infestation, calculate amount to include an additional six (6) to twelve (12) inches on either side of the infested area. Refer to Table 1 for the amount of BORA-CARE IC required to treat various size wood members.
2. Refer to Table 2 and select the appropriate size and number of holes to accommodate the required amount of BORA-CARE IC. If possible, drill hole to extend to the center of the wood member being treated. If using injection sleeves, holes must be drilled at least one (1) inch longer than the sleeve length to allow BORA-CARE IC access to the wood. Avoid drilling any holes which would significantly decrease the structural strength of any wood member.
3. Inject proper amount of BORA-CARE IC into holes or injection sleeves
4. Seal holes with a cork, plastic or wooden plug, exterior wood putty, or rubber stopper. (Injection sleeves are self sealing.)
5. Remove any excess BORA CARE IC from the surface with a damp cloth or sponge.

TABLE 1(a)  
DIMENSIONAL LUMBER

Lumber Size (inches)	Actual Size (inches)	Amount of BORA-CARE Required To Treat One Lineal Foot	
		Fl.Oz.	cc
1x2	3/4 x 1 1/2	0.03	1
1x4	3/4 x 3 1/2	0.06	2
1x12	3/4 x 11 1/4	0.17	5
2x2	1 1/2 x 1 1/2	0.06	2
2x4	1 1/2 x 3 1/2	0.11	4
2x6	1 1/2 x 5 1/2	0.17	5
2x8	1 1/2 x 7 1/4	0.22	7
2x10	1 1/2 x 9 1/4	0.28	8
2x12	1 1/2 x 11 1/4	0.33	10
4x4	3 1/2 x 3 1/2	0.22	7

TABLE 1(b)  
SQUARE AND RECTANGULAR LOGS AND BEAMS

Actual Size (inches)	Amount of BORA-CARE Required To Treat One Lineal Foot	
	Fl.Oz.	cc
4x4	0.22	7
4x6	0.33	10
4x8	0.44	13
4x10	0.55	17
4x12	0.66	20
6x6	0.50	15
6x10	0.83	25
6x12	1.0	30
8x8	0.84	27
8x10	1.1	33
8x12	1.3	39
10x10	1.4	42
12x12	2.0	60

TABLE 1(c)  
ROUND LOGS, POLES AND TIMBERS

Diameter (inches)	Amount of BORA-CARE Required To Treat One Lineal Foot	
	Fl.Oz.	cc
4	0.17	5
6	0.39	12
8	0.70	21
10	1.1	33
12	1.6	48
14	2.1	63
16	2.8	84
18	3.5	105
20	4.4	132
24	6.3	189
28	8.5	255
32	11.1	333
36	14.1	423

NOTE: If possible, holes should be angled downward to prevent liquid from escaping hole after injection. Never space holes more than 24" apart along the length of any wood member being treated.

**TABLE 2(a)**  
**LIQUID CAPACITY OF VARIOUS SIZE HOLES**  
**(IN FLUID OUNCES)**

Depth (inches)	Hole Diameter (inches)						
	1/4	3/8	1/2	5/8	3/4	7/8	1
1	0.03	0.06	0.11	0.17	0.25	0.33	0.44
2	0.06	0.12	0.22	0.34	0.49	0.67	0.87
3	0.08	0.18	0.33	0.51	0.74	1.0	1.3
4	0.11	0.24	0.43	0.68	0.98	1.3	1.7
5	0.14	0.30	0.54	0.86	1.2	1.7	2.2
6	0.17	0.37	0.65	1.0	1.5	2.0	2.6
7	0.20	0.43	0.76	1.2	1.7	2.3	3.0
8	0.22	0.49	0.87	1.4	2.0	2.7	3.5
9	0.25	0.55	0.98	1.5	2.2	3.0	3.9
10	0.28	0.61	1.1	1.7	2.5	3.3	4.4

**TABLE 2(b)**  
**LIQUID CAPACITY OF VARIOUS SIZE HOLES**  
**(IN CENTIMETERS)**

Depth (centimeters)	Hole Diameter (centimeters)						
	0.64	0.95	1.27	1.59	1.91	2.22	2.54
2.54	0.82	1.8	3.2	5.0	7.1	9.8	12.9
5.08	1.6	3.6	6.4	10.1	14.6	19.7	25.7
7.62	2.5	5.4	9.7	15.1	21.8	29.5	38.6
10.16	3.3	7.2	12.9	20.2	29.1	39.3	51.5
12.70	4.1	9.0	16.1	25.2	36.4	49.1	64.3
15.24	4.9	10.8	19.3	30.2	43.7	59.0	77.2
17.78	5.7	12.6	22.5	35.3	51.0	68.8	90.0
20.32	6.6	14.4	25.7	40.3	58.2	78.6	102.9
22.86	7.4	16.2	28.9	45.4	65.5	88.4	115.8
25.40	8.2	18.0	32.2	50.4	72.8	98.3	128.6

### III. COMBINATION TREATMENTS WITH IMPEL RODS, SOLID BORATE FUNGICIDE

BORA-CARE IC may be used in conjunction with IMPEL Rods to protect wood, especially applications such as wood in ground contact where continuous moisture is present. Use of a combination of both products will provide long term control of insects as well as decay fungi and will increase the rate of active ingredient diffusion from the rods in wood containing low moisture content.

Holes for IMPEL Rod insertion should be drilled slightly larger than normal in order to accommodate the BORA-CARE IC. Insert the IMPEL Rod into the hole then fill the remaining space with BORA-CARE IC. Always allow at least 1/8" head space at the top of the hole between the products and the sealant or plug in order to allow room for expansion.

### IV. APPLICATION SITES

Use BORA-CARE IC in areas where wood decay or insects are present or in high risk areas vulnerable to infestation, such as wood that remains moist or is subject to frequent wetting, or wood which is in contact with the ground or soil. Examples include:

Flooring and Foundation Systems - especially around kitchens and bathrooms where leaky plumbing, bath-traps or deteriorated caulking and inadequate moisture barriers may be present.

Window and Door Framing and Headers - where weathered paint or caulk provides inadequate protection against moisture. The corners, in particular, often exhibit signs of decay.

Exterior Steps, Porches and Decks - where damage may be found in columns, railings, floors, and support members.

Roof Trim and Soffits - especially fascia boards supporting gutter systems and soffits; where wood is in contact with skylights, vents, flashing, or chimneys and wherever excessive moisture is found.

Attics and Roofing - where leaks may cause decay damage to support members and rafters.

Porches and Garages - where wood contacts concrete slabs or brick walls are adjacent to dirt filled porches. The base of garage door frames, for example, are particularly susceptible to infestation by decay, termites, and carpenter ants.

Fence Posts, Pilings, and Piers - apply within six inches of the ground line as well as the top of the post and into existing cracks and checks.

Log Construction - in any decayed or susceptible areas or where a water repellent finish is present such as corners, joints, ends, and lower courses; and especially into upward facing cracks and checks that allow water entry. Apply directly into beetle emergence holes and carpenter ant galleries.

Utility Poles - in susceptible areas such as at the groundline and where cross-arms are attached. Use wherever an active infestation is present or where preventative maintenance is desired.

Railroad Ties (Sleepers) - adjacent to rail plates, in cracks and checks where water accumulates, and in any infested or susceptible areas.

**NOTE: SPILLED BORA-CARE IC MAY STAIN SOME WOOD FINISHES. IF NECESSARY, PROTECT SURFACE DURING APPLICATION AND WIPE UP EXCESS WITH A DAMP CLOTH.**

### WARRANTY LIMITATIONS AND DISCLAIMER

Because of varying conditions affecting use and application, manufacturer warns buyer that these may impair or vary the results or effects of the use of this product. In any event, complete elimination or prevention of decay or insect infestation is not guaranteed. Neither the 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.

[Homeowner Label Directions for Use]

## DIRECTIONS FOR USE

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

### Storage and Disposal

**Storage:** Store in a cool, dry place (preferably locked) inaccessible to children and pets. **Disposal:** Do not reuse empty dispenser; wrap and put in trash.

### NOTICE:

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" statement found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under WARRANTY LIMITATIONS AND DISCLAIMER.

### SAFE HANDLING PROCEDURES

When drilling voids in wood to hold BORA-CARE IC, wear a dust mask.

The use of chemical splash goggles and protective gloves is advised. Spills may be cleaned with a damp cloth or absorbed with appropriate materials. When applying BORA-CARE in confined spaces, it is recommended that ventilation or an exhaust system be provided. If this is impractical, the use of a NIOSH approved respirator designed for protection from organic vapors is recommended.

### GENERAL INFORMATION

BORA-CARE IC is highly concentrated to provide a long lasting reservoir of active borate ingredient to wood, particularly in high risk or moist areas. Because of its high concentration and controlled diffusion rate, BORA-CARE IC is recommended for treating wood in contact with the ground or soil. BORA-CARE IC will eliminate existing termite and fungal infestations and provide residual protection against:

Subterranean Termites  
Formosan Termites  
Dampwood Termites  
Carpenter Ants  
Brown Rot, White Rot and Wood Decay Fungi

BORA-CARE IC contains 40% by weight disodium octaborate tetrahydrate, a combination of borax and boric acid formulated in a patented carrier system which facilitates rapid penetration throughout wood of any moisture content. BORA-CARE IC is particularly suited for treatment of wood which is coated with a water repellent finish or is in ground contact, such as fence posts and deck posts. It is not necessary to remove any wood finish prior to injection of BORA-CARE IC.

**NOTE:** If any wood member's structural integrity has been reduced to the extent that repair or replacement is necessary, repairs and/or replacement should be made prior to treating with BORA-CARE IC. BORA-CARE IC will not restore structural integrity to previously damaged wood.

### I. APPLICATION METHODS

BORA-CARE IC is designed for application to wood by injection into pre-drilled holes. In order to facilitate reapplication, a plug material such as cork, rubber, wood, or caulk, should be used to seal the injection site. BORA-CARE IC can be injected through any wood surface coating. Injection sites may be placed in either a staggered, linear or angled pattern. BORA-CARE IC should be injected throughout the infested area and for at least 6 inches on either side of wood showing any signs of infestation. Injection holes should be spaced at even intervals throughout the infested area to provide the best distribution of the BORA-CARE IC. Drill holes at a downward angle to help retain gel in place while sealing hole. If a horizontal section of a beam or member is being treated, do not exceed a 12 inch spacing between holes.

### II. APPLICATION STEPS

1. Measure the dimensions and length of the zone of wood to be treated. If the zone has an active infestation, calculate amount to include an additional 6 to 12 inches on either side of the infested area. Refer to Table 1 for the amount of BORA-CARE IC required to treat various size wood members

2. Refer to table 1 to select the appropriate size hole. If possible, drill hole to extend to at least the center of the wood member being treated. Avoid drilling any holes which would significantly decrease the structural strength of any wood member.

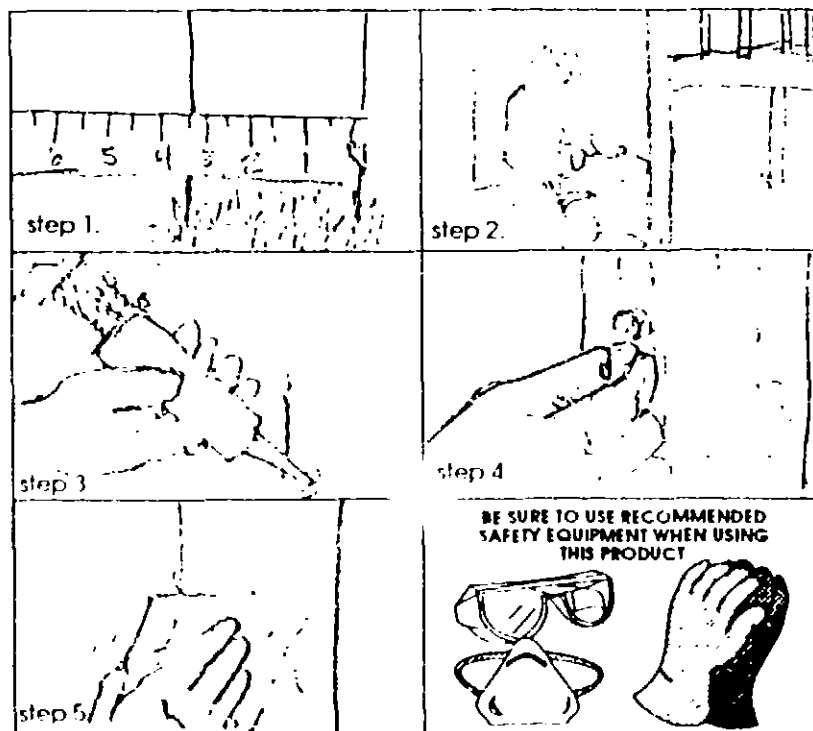
3. Inject proper amount of BORA-CARE IC into holes.

4. Seal holes with cork, plastic, wood, exterior wood putty, rubber or caulk.

5. Remove any excess BORA-CARE IC from wood surface with a damp cloth or sponge.

**TABLE 1**

LUMBER SIZE	HOLE SIZE	HOLE DEPTH	BORA-CARE IC TO TREAT ONE LINEAR FOOT
2x4	1/2"	1.5"	4cc
2x6	1/2"	2"	5cc
2x8	1/2"	3"	7cc
2x10	1/2"	3.5"	8cc
4x4	1/2"	3"	7cc
6x6	1/2"	5"	15cc
4" Round	1/2"	2"	5cc
6" Round	1/2"	3.5"	12cc
8" Round	1/2"	6"	21cc





### III. APPLICATION SITES:

Use BORA-CARE IC in areas where wood decay, termites or carpenter ants are present or in high risk areas vulnerable to infestation, such as wood that remains moist or is subject to frequent wetting, or wood which is in contact with the ground or soil. Examples include:

**Fence Posts, Pilings and Piers:** Apply within six inches of the ground line and on top of the post and into existing checks and cracks.

**Porches and Garages:** Where wood contacts concrete slabs or brick walls adjacent to dirt filled porches.

**Exterior Steps, Porches and Decks:** Where damage may be found in columns, railings, floors, step stringers and support members.

**Window and Door Framing and Headers:** Where weathered paint or caulk provides inadequate protection against moisture. The corners in particular often exhibit signs of decay.

**NOTE:** Spilled gel may stain some wood finishes. If necessary, protect surface during treatment and wipe up excess with a damp cloth or sponge.

### WARRANTY LIMITATIONS AND DISCLAIMER

Because of varying conditions affecting use and application, manufacturer warns buyer that these may impair or vary the results or effects of the use of this product. In any event, complete elimination or prevention of decay, insect or termite infestation is not guaranteed. Neither the 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.

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