



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 6, 2019

Anna Crowder
Regulatory Affairs Specialist
Nisus Corporation
100 Nisus Drive
Rockford TN, 37853

Subject: Registration Review Label Mitigation for Boric Acid
Product Name: Bora-Care One Step
EPA Registration Number: 64405-10
Application Date: 7 Oct 2018
Decision Number: 554484

Dear Anna Crowder:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Boric Acid Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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If you have any questions about this letter, please contact Miguel Zavala by phone at 703-347-0504, or via email at zavala.miguel@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to be "Linda Arrington", with a stylized flourish at the end.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

ACCEPTED

Sep 06, 2019

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 64405-10

BORIC ACID/ SODIUM SALTS	GROUP:	8D	INSECTICIDE FUNGICIDE
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{The MOA Box will be used if required}

Bora-Care® One Step

Termiticide, Insecticide and Fungicide

- For Prevention and Control of: •Subterranean Termites •Formosan Termites
• Drywood Termites •Carpenter Ants •Listed Wood Destroying Beetles •Fungi (Rot) •Algae

Keep Out of Reach of Children

CAUTION

See Back Panel for First Aid and Additional Precautionary Statements.

See Booklet for Complete Directions for Use.

Active Ingredient:

Disodium Octaborate Tetrahydrate (CAS No. 12280-03-4)	23%
Other Ingredients	<u>77%</u>
Total	100%

Net Contents: 1.0 Gallon (3.78 Liters) Net Weight: 9.9 Pounds (4.49 Kilos)

[Net Contents: 5 Gallons 55 Gallons 250 Gallons 275 Gallons]

EPA Reg. No. 64405-10 EPA Est. 64405-TN-1

U.S. Patent Nos. _____

For use in and around Homes, Apartments, Garages, Museums, Public and Private Institutions, Schools, Hotels, Hospitals, Kennels, Stables, Farm Buildings, Trucks, Trailers, Warehouses and Non-Food Areas of Supermarkets, Restaurants and Food Processing Plants.

First Aid

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 by mouth-to-mouth, if possible.
If on Skin or Clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Immediately rinse skin with plenty of water for 15-20 minutes.
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 the first 5 minutes, then continue rinsing eye.
Call a poison control center or doctor for further treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. [You may also contact {insert appropriate toll free number} for emergency medical treatment information.]	

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

CAUTION: Harmful if inhaled or absorbed through skin. Avoid breathing vapors or spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before

eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse. Avoid contamination of food or feed.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate; butyl, nitrile, neoprene and natural rubbers ≥ 14 mils; polyethylene; polyvinyl chloride; and viton ≥ 14 mils.

Applicators, mixers and other handlers must wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves and protective eyewear. When applying Bora-Care One Step in confined spaces, provide ventilation or an exhaust system.

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet;
- Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing;
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

Wood treatment facilities must take steps to prevent runoff of the product into the waterway. Treated material stored outdoors within 100 feet of a pond, lake, stream, or river must be covered, surrounded by a containment berm, or otherwise protected to prevent surface water runoff. The containment berm must be of sufficient height to prevent runoff during heavy rainfall events.

{For product in containers less than 5 gallons:}

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to intertidal areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

{For product in containers 5 gallons or greater:}

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to intertidal areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. 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.

DIRECTIONS FOR USE

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

Use of this product for the control of bed bugs is prohibited.

Applications to carpets are prohibited.

Notice

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

Before buying or using this product, read **Warranty Disclaimer** and **Limitation of Remedies** statements 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 Disclaimer** and **Limitation of Remedies**.

Use Restrictions

Do not use in edible product areas of food processing plants or on countertops 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 enter or allow others to enter or occupy treated areas until spray has been absorbed into the wood. Treated areas must not be occupied during application.

Phytotoxicity

This product may be phytotoxic to plants. When treating around the exterior of structures, cover and protect shrubbery and plants that may be potentially exposed to this product, when applied in accordance with the label directions.

I. Mixing Instructions

Bora-Care One Step is a ready-to-use product that **must** be vigorously stirred or shaken before each use.

- A. Hand Sprayers:** Always vigorously stir contents or shake container before adding to a spray tank; not stirring or shaking before adding to a spray tank can cause blocking of hoses and nozzles.
- B. Hand Volume Pumping Systems:** Add product to tank, start recirculator and mix until uniform.

Do not leave unused solution under pressure or in tank overnight. Do not store in temperatures above 100°F or below 32°F. Clean and/or flush equipment and lines with water after use.

To make the 9% dilution for listed applications, mix one gallon of Bora-Care One Step with 2 gallons of water. Thoroughly mix the solution with a drill and mixing apparatus or by using the tank unit's back flow agitation.

Bora-Care One Step can be mixed with pyrethrins at 0.3% for carpenter ants and other listed insects, or with Mold-Care® Moldicide Concentrate (EPA Reg. No. 6836-212-64405) [or other listed moldicides, sealers or coatings] for mold, in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Follow the mixing directions under Section XVI below.

II. Dilution Ratios by Volume

Table A

Target Pests	Ratios Bora-Care One Step	Application Notes
Subterranean and Formosan Termites	Undiluted	For remedial and preventative treatments apply undiluted for all treatments by spray, injection, brush or roller for foaming or, for application into inaccessible wall voids, by a misting machine.
Drywood Termites	Undiluted for remedial 9% dilution for prevention	For remedial treatment apply undiluted by spray, foam or misting machine. Use the 9% dilution for prevention.
Anobiid and Lyctid Powderpost Beetles	Undiluted for remedial 9% dilution for remedial on hardwood floors 9% dilution for prevention	Use undiluted for all remedial treatments and on logs greater than 2" in thickness (prevention). Use the 9% dilution for treating hardwood floors (remedial) and on wood less than 2" in thickness (prevention).
Old House Borers, Longhorn Beetles and Ambrosia Beetles	Undiluted for remedial 9% dilution for prevention	Use undiluted for remedial and preventative treatment in wood greater than 2" in thickness. Use the 9% dilution for prevention in wood less than 2" in thickness.

Carpenter Ants	Undiluted for remedial 9% dilution for prevention	Use undiluted for all remedial treatments and for remedial treatments applied by foam or with a misting machine (or applicator). Use the 9% dilution for prevention.
Fungi (Rot) and Algae	Undiluted for remedial 9% dilution for prevention	For remedial control use undiluted on wood members. For prevention use the 9% dilution.

Table B

Materials to Be Treated	Ratios Bora-Care One Step	Application Notes
Logs, Large Beams, Timber and Dimensional Lumber > 4"	See target pests in Table A	All spray applications for insects and Fungi (rot).
Decking, Fences and Plywood	See target pests in Table A	Use on wood members 2" or less in thickness.
Logs, Large Beams and Dimensional Lumber	See target pests in Table A	Use the 9% dilution only for dip treatment for insect prevention. May be used in conjunction with other fungicides for fungi (rot) control.
Cellulosic Drywall and Insulation	9%	Use the 9% dilution for remedial preventative treatment of dry rot. May be used in conjunction with other fungicides.

Table C

Parts Water	Part Bora-Care One Step	% Disodium Octaborate Tetrahydrate
Undiluted		23%
2	to 1	9%

III. General Information

Bora-Care One Step is not intended for application to soil; it is not a soil termiticide. **Do not use to directly treat soil. When an active infestation exists, get a professional inspection.** Prior to using this product, you should consult with your state regulatory agency to see if they require additional qualifications for the person applying this product.

Bora-Care One Step contains an inorganic borate salt, soluble in water, with insecticidal and fungicidal properties effective against wood destroying organisms, including the target pests listed below. This product may be used as a remedial treatment of infested wood and as a long-term protective or preventive treatment (before signs of infestations are observed) of wood in existing or new construction. Bora-Care One Step is recommended for protection of all interior and exterior wood (including wood-foam composite structural components). Treatment is long lasting provided the treated material is not exposed to rain or continuous water or in contact with the ground.

- Subterranean Termites: *Reticulitermes*, *Heterotermes*, *Coptotermes*
- Drywood Termites: *Kaloterms*, *Incisitermes*
- Dampwood Termites: *Zootermopsis*, *Neotermes*
- Powderpost Beetles: *Lyctidae*, *Bostrichidae*
- Anobiid Beetles: *Anobiidae*
- Old House Borers, Longhorn Beetles: *Cerambycidae*, *Hylotrupes*
- Ambrosia Beetles: *Platypodidae*, *Scolytidae*
- Carpenter Ants: *Camponotus*
- Brown Rot (including dry rot), White Rot, Wood Decay and Listed Fungi

<i>Antrodia sinuosa</i>	<i>Gloeophyllum abietinum</i>	<i>Phialophora lueto-olivacea</i>	<i>Poria viallantii</i>
<i>Antrodia xantha</i>	<i>Gloeophyllum sepiarium</i>	<i>Phoma herbarum</i>	<i>Poria vaporaria</i>
<i>Aureobasidium pullulans</i>	<i>Gloeophyllum trabeum</i>	<i>Phoma lanosa</i>	<i>Poria xantha</i>
<i>Basidiomycete</i>	<i>Hericium abietis</i>	<i>Polyporus abietinus</i>	<i>Rhinocladiella spp.</i>
<i>Bisporia pusillas 132</i>	<i>Heterobesidiam annosum</i>	<i>Polyporus rugulosus</i>	<i>Scerlaphoma pityophila</i>
<i>Ceratocystis pluriannulata</i>	<i>Lentinus lepideus</i>	<i>Polyporus sulphureus</i>	<i>Serpula lacrymans</i>
<i>Ceratocystis picea</i>	<i>Lenzites trabea</i>	<i>Polyporus tomentosus</i>	<i>Sistotrema brinkmenii</i>
<i>Chaetomium globosum keinze</i>	<i>Merulius lacrymans</i>	<i>Polyporus versicolor</i>	<i>Stereum abietirum</i>
<i>Coniophora cerebella</i>	<i>Ophiostoma coeruleum</i>	<i>Polystictus versicolor</i>	<i>Torulla spp.</i>
<i>Coniophora olivacea</i>	<i>Paecilomyces varioti</i>	<i>Poria carbonica</i>	<i>Trametes lilacino-gliva</i>
<i>Coniophora puteana</i>	<i>Phialophora spp.</i>	<i>Poria incrassata</i>	<i>Trametes serialis</i>
<i>Fomes lividus</i>	<i>Phialophora fastigiata</i>	<i>Poria monticola 698</i>	<i>Trichocladium asperum</i>
<i>Fomes officinalis</i>	<i>Phialophora haffmannii</i>	<i>Poria nigrescens 4856</i>	
<i>Fomes pini</i>	<i>Phialophora heteromorpha</i>	<i>Poria placenta</i>	
<i>Fomes pinicola</i>	<i>Phialophora lignicola</i>	<i>Poria subacida</i>	

Bora-Care One Step may be used on all non-food contact surface cellulosic materials including wood, plywood, particle board, paper, oriented strand board (OSB), cardboard (non-food packaging material), wood composite structural components, concrete, block, brick, metals, PVC plumbing pipes and other non-cellulosic materials found in structures. Apply Bora-Care One Step only to bare wood, plywood, particle board and other cellulosic materials where an intact water-repellent barrier, such as paint, stain or sealer, is not present.

For tracking purposes (to make it easier to see where Bora-Care One Step has been applied) add an appropriate marker dye or pigment; refer to the dye or pigment product label for the recommended amount to add.

When spraying overhead interior areas of homes, apartment buildings, etc., cover or protect all surfaces below the area being sprayed with plastic sheeting or other material that can be disposed of if contamination from dripping occurs. Do not apply in food serving areas while food is exposed. Cover to protect all food contact and preparation surfaces prior to treatment. After treatment, thoroughly clean all food contact surfaces with a potable water/detergent solution followed with a potable water rinse. Remove all pets, turn off fish aquarium pumps, and cover.

In new construction applications for the prevention of subterranean termites, structural wood is defined as: only wood needed for the basic building structure as found in the dried-in stage of construction, including wood in direct contact with foundations, interior and exterior wall sill plates, wood studs, wood or cellulosic sheathing, floor joists and sub-flooring.

Use soap and water to clean up tools.

In structures where a soil treatment/barrier termiticide has been applied and/or termite bait system installed, apply Bora-Care One Step as an additional treatment to protect wood from subterranean termites that may have penetrated the chemical gaps occurring within the termiticide-treated soil or have bypassed the bait/monitor systems.

As a remedial treatment, Bora-Care One Step will both eliminate and help prevent infestations of Formosan, native subterranean termites, wood boring beetles, carpenter ants and decay fungi. It may also be used as a supplement or alternative to fumigation in order to provide long-term residual control. The active ingredient in Bora-Care One Step is an inorganic salt and once in place it will not decompose or volatilize out of the wood.

[The active ingredient in Bora-Care One Step, disodium octaborate tetrahydrate, is toxic to listed insects, decay fungi and algae. Once Bora-Care One Step has been applied, those insects that eat or infest the wood come in contact with the active borate ingredient and are killed. There are wood damaging insects, such as carpenter ants, that do

not consume wood but use the wood as nesting sites. While chewing, they exude chemicals that soften the wood for easier removal. In the process of releasing and absorbing these chemicals or by being in contact with Bora-Care One Step-treated wood, these insects also ingest the borate in the wood and are killed. Once individual members of many ant and termite colonies begin to die after feeding on a particular food source, the rest of the colony usually stops feeding on that same source and retreats from the area. Thus, borate-treated wood may be avoided by those members of the colony still alive.]

Older wood boring beetle larvae and especially pupae (particularly Old House Borers) already present in the wood at the time of treatment may occasionally emerge sometime after treatment. This is because they are no longer feeding on the wood. This will not occur frequently enough to cause structural damage to any wooden member and reinfestation is prevented.

IV. Remedial Wooden Structure Treatment for the Control of Subterranean, Formosan, Drywood and Dampwood Termites, Carpenter Ants, Old House Borers, Powderpost and Listed Wood Boring Beetles and Fungi (Rot)

- A. Infested wood:** Spray and/or inject Bora-Care One Step into beetle holes, termite and carpenter ant galleries and decay pockets. Apply one (1) coat of Bora-Care One Step to the point of surface saturation to all infested and susceptible wood, paying particular attention to infested areas. Apply two (2) coats of Bora-Care One Step to those wood members with only one (1) or two (2) exposed sides. For quicker control, apply an additional coat to heavily infested areas. Allow first application to dry by waiting at least 20 minutes between applications. Refer to Table A for specific pests to be controlled.

In cases where the infestation is not accessible from the surface, drill small holes into the wood to gain access to the infested area. Inject enough product to completely flood galleries or voids. Adjacent intact wood may be treated by pressure injecting Bora-Care One Step 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.

For treating infested wall voids, refer to Sections IV.E. and F.

- B. Basements and crawl spaces:** Apply one (1) coat of diluted Bora-Care One Step to the point of surface saturation to all accessible surfaces including sill plates, piers, girders, subfloors, floor joists and any wood exposed to vertical access above ground. On wood where access is limited to one (1) or two (2) sides of wood members, such as sills and plates on foundation walls, apply two (2) coats of Bora-Care One Step. Allow first application to dry by waiting at least 20 minutes between applications.
- C. Buildings on slabs:** Apply Bora-Care One Step into wall voids by foaming or misting. Locate each stud and drill a small hole through the wall covering to gain access to the infested area. Drill holes every 18-24 inches adjacent to the side of each stud and inject at least 1/3 fluid ounce of Bora-Care One Step per hole. Drill at least one hole per stud bay near the floor to treat the base plate in each void. Treat entire wall area as opposed to single stud bays to completely include the infested area within the treatment zone. Cover at least six (6) inches of slab surface area out from the penetration site.
- D. Wood flooring:** Treat by spray, brush or roller application. Prior to application, remove any existing finish by complete coarse sanding or stripping. Apply a two (2) parts water to one (1) part Bora-Care One Step (2:1) (9%) solution at a rate of approximately one (1) gallon of solution per 500 square feet of floor surface. For treating infestations of subterranean or Formosan termites, two (2) coats may be required, waiting at least one (1) hour between applications. Allow floor to completely dry (typically 48 to 72 hours). Moisture content must be 10% or less before applying final finish. Bora-Care One Step applications may raise the grain of the wood and an additional **light** sanding may be necessary before applying a new finish. Bora-Care One Step 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 surface is tacky or 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.

- E. Inaccessible wall voids, wall studs and wood members:** Apply by foaming or misting into voids and channels of damaged or suspected infested wood and/or through small holes drilled into walls and baseboard areas. Space holes no more than 24" apart along each member to be treated and at least one (1) hole must be drilled between each wall stud when treating base plates. Use sufficient amount of material to cover all areas to the point of surface saturation.
- Note:** Existing insulation may interfere with the distribution of Bora-Care One Step. If necessary, move or displace insulation during or prior to treatment.
- F. Foam application:** For remedial treatments, apply undiluted Bora-Care One Step as a foam to bare wood surfaces and void areas; or, for preventative treatments, by mixing two (2) parts water with one (1) part Bora-Care One Step (2:1) (9%). Add 3 to 8 ounces of foaming agent per gallon. Foam will take approximately one (1) hour to return to liquid state and soak into bare wood. Apply foamed Bora-Care One Step to void spaces at a 1:20 to 1:30 foam ratio (one (1) gallon of mixed solution expanded with foaming agent to produce 20 to 30 gallons of foam). Apply enough foam to fill void and contact all wood surfaces in the void space.
- G. [Roofs containing infested cellulosic materials:** Apply by drilling holes through roofing surface to gain access to the infested area. Space holes no more than three (3) feet apart in a grid pattern. Inject two (2) to four (4) fluid ounces of Bora-Care One Step into each hole. Patch all holes with suitable materials to prevent subsequent water infiltration.]
- H. [Fogging application:** Use a fogging device to treat confined spaces such as attics or crawl spaces. Add a two (2) parts water to one (1) part Bora-Care One Step (2:1) (9%) solution to the fogging device reservoir. Fog the area with enough Bora-Care One Step solution to completely wet all exposed wood surfaces. Apply approximately one (1) gallon of solution for every 400 cubic feet of void volume. In heavily infested areas, supplement fogging with direct spray applications. Two (2) full separate applications are necessary. Wait at least 2 hours between re-applications. Simultaneously operate multiple fogging devices for each 2000 cubic feet of void volume being treated.
- Note:** Fogging is recommended **only** when access is limited, preventing application by other means.]
- I. Foam insulation:** Apply by injecting and/or by low pressure surface spraying undiluted Bora-Care One Step into the infested area at a rate of one (1) gallon per 300 to 400 square feet.
- Note:** Some types of foam insulation, such as polyisocyanurate and extruded polystyrene, have closed cell structures that do not allow significant penetration from surface application. Inject and surface spray these types of insulation.
- J. For remedial treatments:** Apply a supplemental treatment of undiluted Bora-Care One Step to concrete, block or brick on the interior of crawlspace and basement foundations to prevent shelter tubing by subterranean termites. Apply undiluted Bora-Care One Step at the rate of one (1) gallon to 400 square feet of surface area. In crawlspaces, apply two (2) feet (24 inches) up from the ground on interior wall surfaces. In unfinished basements with bare slabs, apply undiluted Bora-Care One Step two (2) feet (24 inches) up from the slab on interior foundation walls. In addition to the wall treatment, extend application up to six (6) inches away from foundation walls onto the horizontal surface of the bare slab. Treat bath trap areas in slab construction, after obtaining access to the area, by evenly applying eight (8) ounces of undiluted Bora-Care One Step into the traps in at least a one (1) foot (12

inch) band covering all sides on the slab surface area out from the trap area. Treat other termite access areas (such as plumbing penetrations, expansion joints and abutting slabs) by applying undiluted Bora-Care One Step in at least a one (1) foot (12 inch) band covering all sides of the slab surface area out from the penetration and by treating protruding utilities and adjacent wood to a height of two (2) feet (24 inches).

V. Preventative Treatment of Wooden Structures for Formosan, Drywood and Dampwood Termites, Carpenter Ants, Old House Borers, Powderpost and Other Wood Boring Beetles, and Fungi (Rot)

Note: Bora-Care One Step is not intended for application to soil.

Bora-Care One Step provides only limited and temporary protection of wood in contact with the ground (see specific instructions) and is not a substitute for products registered for protection of wood in contact with the ground. Bora-Care One Step may be applied as a treatment to protect wood from Formosan, drywood and dampwood termites, carpenter ants, old house borers, powderpost and listed wood boring beetles and wood decay fungi.

Apply when access to wooden structural components is optimized such as at the “dried-in” stage when sheathing and roofing are in place, yet before installation of insulation, wiring, plumbing and other mechanical components.

For framed wood surfaces above ground, apply to the point of surface saturation one (1) coat of undiluted Bora-Care One Step for subterranean termites and Formosan termites as described in Section VI. For treatment of new log structures see Section IX. Treat remainder of structural wood with the 9% Bora-Care One Step solution. Concentrate application in areas susceptible to attack, to include all sills, plates, floor joists, piers, girders and subfloors. Treat structural wood in all plumbing, electrical and ductwork areas where they penetrate walls or floors. Treat all structural wood base plates and studs on interior and exterior walls, especially those surrounding any high moisture areas such as bathrooms, kitchens and laundry rooms. For buildings built on slabs, treat all structural wood in contact with the slab, all interior and exterior wall studs and wall sheathing material. In attics, treat all structural wood including ceiling joists, trusses, top plates, rafters and roof decking. Treat all structural wood sill plates and structural wood contacting garages and porches.

In areas where access is limited to one (1) or two (2) sides of a wood member, including exterior wall base plates and any married studs, apply two (2) coats of Bora-Care One Step to the exposed surfaces. Allow first application to dry by waiting at least 20 minutes between applications.

Treat all exterior wood including siding, facias, soffits, eaves, roofing, porches, decks and railings.

VI. Preventative and Pretreatments for Subterranean Termites (Crawl Space, Basement and Slab)

Note: This treatment serves as a primary treatment for the control of subterranean termites. The product must be applied undiluted.

In new construction applications for the prevention of subterranean termites, structural wood is defined as: only wood needed for the basic building structure as found in the dried-in stage of construction, including wood in direct contact with foundations, interior and exterior wall sill plates, wood studs, wood or cellulosic sheathing, floor joists and sub-flooring.

Apply when access to wooden structural components is optimized and when no further framing modifications will be made, such as after final framing inspection. If treatment is carried out prior to framing inspection, a second visit is required to ensure full treatment is still intact.

Do not use for new construction treatments if the total linear footage of the cellulosic base plates is less than 60% of the total linear footage of all base plates in structure to include exterior and interior walls. In new construction with 60% or more lineal footage of base plates, but without continuous wood on every exterior wall, the Bora-Care One Step treatment must be installed to all other exterior structural construction materials, including brick or block, to a height of two (2) feet (24 inches) and extended out onto the slab a minimum of two (2) to a maximum of eight (8) inches.

A. Buildings on Crawl Spaces and Basements: Apply one (1) coat of undiluted Bora-Care One Step in a two (2) foot (24-inch) wide uninterrupted band to the point of surface saturation to all structural wood surfaces in crawl spaces and basements, to include all sills, plates, floor joists, piers, girders and subfloors as well as structural wood exposed to direct vertical access from the soil. To prevent termite shelter tubes on crawlspace walls, apply a coat of undiluted Bora-Care One Step to crawlspace concrete or block walls in a two (2) foot (24-inch) band up from the ground on interior wall surfaces. Apply at the rate of one (1) gallon to 400 square feet of surface area. Treat a two (2) foot (24-inch) band around construction materials and structural wood adjacent to plumbing, electrical conduit and ducts where they penetrate subfloors, if they provide a direct vertical access from the soil. Treat all structural wood, including wall studs and sills, in finished-out basements where structural wood framing is immediately adjacent to the exterior foundation walls. Spray concrete slab surface a minimum of two (2) up to a maximum of eight (8) inches. To prevent termite shelter tubes on basement walls, spray all interior concrete or block foundation walls with a two (2) foot (24-inch) band up from the slab area. Apply undiluted Bora-Care One Step at the rate of one (1) gallon per 400 square feet of concrete foundation wall area.

On structural wood where access is limited to one (1) or two (2) sides of wood members, such as sills and plates on foundation walls or wrapped sheathing, apply two (2) coats of Bora-Care One Step. Allow first application to dry by waiting at least 20 minutes between applications. If accessible, treat the exterior of structural wood sill areas around the entire perimeter of the structure with a 24-inch wide band of Bora-Care One Step beginning with the sill area and extending upwards onto the sheathing material. On multiple story structures, treat only the first story above the masonry foundation level. Coated or painted structural wood may be treated by pressure injecting Bora-Care One Step 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 one (1) coat of undiluted Bora-Care One Step to all base plates and the bottom two (2) feet (24 inches) of all studs on all exterior and interior walls. When spraying base plates also treat concrete surface a minimum of two (2) inches to a maximum of eight (8) inches in from plates. **In areas where access is limited to one (1) or two (2) sides of a structural wood member, such as sills and plates on foundation walls or wrapped sheathing, apply two (2) coats of Bora-Care One Step to the exposed surfaces.** Allow first application to dry by waiting at least 20 minutes between applications. Treat all structural wood in plumbing walls and apply to any wood in bath traps as well as structural wood adjacent to plumbing, electrical conduit and duct penetrations to provide a minimum two (2) foot (24-inch) wide barrier of treatment between the soil and the balance of the structure. Using undiluted Bora-Care One Step, treat all available plumbing penetrations at least two (2) feet (24 inches) up from slab. Treat all slab surface area at least one (1) foot out from all bath trap penetrations. Evenly treat bath traps with a minimum of eight (8) ounces to a maximum of sixteen (16) ounces of undiluted Bora-Care One Step per square foot of trap. Treat any penetrations (such as plumbing, expansion joints and abutting slabs) not associated with any nearby structural wood by spraying undiluted Bora-Care One Step on available penetrations up to two (2) feet (24 inches) high and extending application to cover at least six (6) inches of slab surface area out from penetration site.

C. Foam insulation: Treat with low-pressure surface spraying or injecting undiluted Bora-Care One Step to the infested area at the rate of one (1) gallon per 300 to 400 square feet.

Note: Some types of foam insulation, such as polyisocyanurate and extruded polystyrene, have closed cell structures that do not allow significant penetration from surface application. Inject and surface spray these types of insulation.

VII. Preventative Treatment for Drywood Termites and Powderpost Beetles

Apply one (1) coat of the 9% Bora-Care One Step solution to the point of surface saturation to all structural wood surfaces using a brush, spray or mist. Apply two (2) coats of the 9% Bora-Care One Step solution to those surfaces where access is limited to one (1) or two (2) sides of structural wood members. Allow the first application to dry by waiting at least 20 minutes between applications.

VIII. Treatment of Exterior Wood Surfaces Less Than Two Inches Thick such as Decks, Sheds and Fences

Apply only to bare wood or to wood surfaces where an intact water repellent or finish is not present. Remove paint or finish prior to application. Apply one (1) coat of the 9% Bora-Care One Step solution to the point of surface saturation to all wood surfaces. Apply undiluted Bora-Care One Step for the prevention of subterranean termites. Apply two (2) coats of the 9% Bora-Care One Step solution to heavily infested areas and to those surfaces where access is limited to one (1) or two (2) sides of wood members. Allow first application to dry by waiting at least 20 minutes between applications. Do not apply in rain or snow. Do not expose treated exterior wood surfaces to rain or snow for at least 48 hours after treatment. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp.

For wood in contact with the ground or soil, see Section XI.

A. Finishing and Maintaining Treated Surfaces: For longer performance, exterior wood surfaces that have been treated with Bora-Care One Step will require a topcoating with a water-resistant finish such as paint or exterior stain. Apply the finish or topcoat within six (6) weeks of treatment. It is important to allow Bora-Care One Step-treated wood to completely dry (at least 48 hours) before applying any protective topcoat. Coat a small section of treated wood with the finish to be used and check for compatibility prior to complete application.

IX. Treatment of Log Structures, Timbers, Beams, Pilings and Exterior Wood Members Two or More Inches Thick

Apply only to bare wood or to wood surfaces where an intact water repellent or other finish is not present. Remove paint or finish prior to application. Prior to treatment clean interior, unfinished surfaces that have accumulated dirt or cooking oils with a strong detergent. Apply undiluted Bora-Care One Step to the point of surface saturation to all interior and exterior wood surfaces. Refer to application chart for minimum amount of Bora-Care One Step to treat various sized logs or beams. Typically, two (2) coats of Bora-Care One Step are required to treat round logs 10" or greater in diameter and rectangular logs larger than 6" x 12". Wait at least one (1) hour before re-application. Apply two (2) coats of Bora-Care One Step to log ends, notches, corners and sill logs. Actual number of coats necessary to meet minimum requirements will depend upon actual wood size, surface porosity and number of sides accessible for treatment. Do not apply in rain or snow. Do not expose treated exterior wood surfaces to rain or snow for at least 48 hours after treatment. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp.

A. Finishing and Maintaining Treated Surfaces: For long-term protection, exterior wood surfaces that have been treated with Bora-Care One Step will require a topcoating with a water-resistant finish, paint or exterior stain. Apply the finish or topcoat within six (6) weeks of treatment. It is important to allow Bora-Care One Step-treated wood to completely dry (at least 48 hours) before applying any protective

topcoat. Coat a small section of treated wood with the finish to be used and check for compatibility prior to complete application.

X. Dip Treating Logs and Lumber

Prepare a dip treating solution by mixing two (2) parts water with undiluted Bora-Care One Step. This will result in a stable solution containing 9% active ingredient. Sticker bundled wood to ensure the solution covers all wood surfaces. Submerge logs and/or lumber in the solution for at least one (1) minute or until all entrapped air has escaped. Protect treated wood from rain or snow for at least 24 hours after treatment.

XI. Treatment of Wood in Contact with the Ground

Any Bora-Care One Step treatment to wood in contact with the ground or soil has a limited lifespan and will require periodic reapplication. Protection may be extended with the use of a 40% disodium octaborate tetrahydrate (or borate) gel product.

XII. Prevention and Remedial Control of Algae for Cellulosic Building Components

Apply Bora-Care One Step for the prevention and remedial control of algae to cellulosic building components (drywall, insulation) in new construction and existing structures and where an intact water repellent barrier such as paint, stain or sealer is not present. Apply Bora-Care One Step at the rate of one (1) gallon per 400 square feet of surface area. Apply only to the back paper side of drywall and to cellulose insulation. In areas where drywall has been installed and insulation is enclosed, apply Bora-Care One Step using a misting machine (or applicator) applying sufficient solution to cover surfaces at the rate of one (1) gallon per 400 square feet. Refer to **Tables A and B** for mixing ratios for preventative and remedial algae treatments.

XIII. General Pest Control Applications

The application of Bora-Care One Step to the surface of wood in new construction or to wood surfaces inside wall void areas in existing structures helps to prevent the establishment of cockroach, ant (except Fire ants, Harvester ants, Pharaoh ants), silverfish, earwig, boxelder bug, millipede and cricket infestations that come in direct contact with these treated areas. Apply one (1) gallon of Bora-Care One Step per 400 square feet of surface area or refer to **Tables A and B** when applying as a surface application.

XIV. Bora-Care One Step Total Wood Preservative

A wood preservative for protection and treatment of wood against brown rot, white rot, fungi (rot) and wood destroying insects including beetles, termites and carpenter ants. Treatment is permanent provided the treated material is not exposed to rain, moisture or ground contact.

A. General Information: Bora-Care One Step is a concentrated solution of sodium borate with additives that facilitate rapid penetration of wood, regardless of moisture content. It is designed for preventative and/or remedial treatment of wood in both new and existing structures against fungi (rot) and wood boring insects including:

Subterranean Termites (*Reticulitermes*, *Heterotermes*, *Coptotermes*)

Dampwood Termites (*Zootermopsis*)

Drywood Termites (*Kalotermites*, *Incisitermes*)

Powderpost Beetles (*Lyctidae*, *Bostrichidae*)

Anobiid Beetles (*Anobiidae*)

Old House Borers, Longhorn Beetles (*Cerambycidae*)

Carpenter Ants (*Camponotus*)

B. Surface Preparation: Apply only to bare wood. Remove any previous finishes or water repellents before application of Bora-Care One Step. Surfaces must be free of dirt and other contaminants. If

finished appearance is a concern, prior to application of Bora-Care One Step, remove any mold or mildew with an appropriate wood cleaner followed by thorough surface rinsing.

C. Application Instructions:

- 1. Treatment of Dimensional Lumber, Plywood and Exterior Wood Surfaces (Decks, Sheds, Siding, etc.):** Apply only to bare wood or to wood surfaces where an intact water repellent or finish is not present. If necessary, remove paint or finish prior to application. To all wood surfaces apply to the point of surface saturation one (1) coat of either undiluted Bora-Care One Step for remedial control of wood-infesting insects, or the 9% Bora-Care One Step solution in foam, mist or spray for insect prevention and fungi (rot) control and prevention. Apply two (2) coats of Bora-Care One Step to heavily infested areas and to those surfaces where access is limited to one (1) or two (2) sides of wood members. Do not apply in rain or snow. Do not expose treated exterior wood surfaces to rain or snow for at least 48 hours after treatment. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp.
 - 2. Treatment of Logs, Timbers and Large Beams:** Apply only to bare wood or to wood surfaces where an intact water repellent or other finish is not present. If necessary, remove paint or finish prior to application. Prior to treatment, clean interior, unfinished surfaces that have accumulated dirt or cooking oils with a strong detergent. Apply to the point of runoff by spray or brush undiluted Bora-Care One Step to all interior and exterior wood surfaces. Refer to application chart for minimum amount of Bora-Care One Step to treat various sized logs or beams. Typically, two (2) coats will be required to treat round logs 10" or greater in diameter and rectangular logs larger than 6" x 12". Wait at least one (1) hour between applications. Also apply two (2) coats of Bora-Care One Step to log ends, notches, corners and sill logs. Actual number of coats necessary to meet the minimum requirements will depend upon actual wood size, surface porosity and number of sides accessible for treatment. Do not apply in rain or snow. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp for at least 48 hours after treatment.
 - 3. Dip Treating Logs and Lumber:** Prepare a dip treating solution by mixing two (2) parts water with one part undiluted Bora-Care One Step. This will result in a stable solution containing 9% active ingredient. Sticker bundled wood to ensure the solution covers all wood surfaces. Submerge logs and/or lumber in the solution for at least one (1) minute or until all entrapped air has escaped. Protect treated wood from rain or snow for at least 24 hours after treatment.
- D. Finishing and Maintaining Exterior-Treated Surfaces:** For long-term protection, exterior wood surfaces that have been treated with Bora-Care One Step require a topcoating with a water-resistant finish such as paint or exterior stain. Apply the finish or topcoat within six (6) weeks of treatment. It is important to allow Bora-Care One Step-treated wood to completely dry (at least 48 hours) before applying any protective topcoat. Coat a small section of treated wood with the finish to be used and check for compatibility prior to complete application. Interior surfaces do not require topcoating except in situations involving repeated moisture contact or high humidity (shower stalls, bath houses, saunas, etc.)
- E. Retention Rates:** One (1) gallon of undiluted Bora-Care One Step will treat 400 board feet of wood to a minimum retention level of 0.084 pounds per cubic foot boric acid equivalent (BAE). Since the active ingredient penetrates throughout the wood being treated, calculate the amount of Bora-Care One Step needed on the volume of wood being treated, not just the surface area. Use the following formulas to calculate the required amount of Bora-Care One Step:

**For Dimensional Lumber
(2 x 4, 2 x 6, 2 x 12, etc.)**

Material thickness (inches) x material width (inches) x material length (feet) divided by 12 = Board Feet

For Log Homes

Log height (inches) x log thickness (inches) x perimeter (feet) x number of courses divided by 12
= Board Feet

(For round logs use the average diameter for both height and thickness measurements)

For Siding and Paneling

One (1) gallon of undiluted Bora-Care One Step will treat 400 sq. ft. of 1" thick wood by spraying only one side. If siding or paneling is ½" thick, one (1) gallon of undiluted Bora-Care One Step treats 800 sq. ft.

XV. Application Rates

Table A – Dimensional Lumber

Lumber Size (Inches)	1 Gallon of Undiluted Bora-Care One Step or 9% Solution Will Treat Up To	Minimum Amount of Undiluted Bora-Care One Step or 9% Solution To Treat 1000 Lineal Feet
1 x 4	1,200 Lineal Feet	0.8 Gal.
1 x 12	400	2.6
2 x 4	600	1.6
2 x 6	400	2.6
2 x 8	308	3.2
2 x 10	240	4.2
2 x 12	200	5.0
4 x 4	300	3.4
4 x 6	200	5.0
4 x 8	150	6.8
4 x 12	100	10.0
6 x 6	133	7.6
6 x 8	100	10.0
6 x 10	80	12.6
6 x 12	68	15.0

Table B – Panels, Siding and Plywood
(Undiluted or 9% Solution)

Thickness (Inches)	1 Gallon of Bora-Care One Step Will Treat Up To	Minimum Amount of Bora-Care One Step To Treat 1000 Square Feet
1/4	1,600 sq. ft.	0.6 Gal.
3/8	1,067	1.0
1/2	800	1.2
3/4	533	1.8
1	400	2.6

Table C – Round Logs
(Only Undiluted Applications)

Diameter (Inches)	1 Gallon of Bora-Care One Step Will Treat Up To	Minimum Amount of Bora-Care One Step To Treat 1000 Lineal Feet
6	167 Lineal Feet	6.0 Gal.
8	96	10.4
10	61	16.4
12	43	23.4

Note: The numbers listed above are based on an application rate of one (1) gallon of undiluted Bora-Care One Step to 400 board feet of wood.

XVI. For Prevention and Control of Listed Wood Destroying Beetles, Decay Fungi (Rot) and Drywood Termites; and Mold Control when mixed with Mold-Care® Moldicide Concentrate

For mold control, mix entire contents [1 pint] of Mold-Care® Moldicide Concentrate and 1 gallon of Bora-Care One Step in 2 gallons of water [following the procedures below:] The solution will remain stable for up to 30 days. Do not leave unused solution under pressure or in tank overnight. Clean and/or flush equipment and lines with water after use.

Bora-Care One Step may be mixed with Mold-Care Moldicide Concentrate for performance against mold, provided the products' labels contain no prohibition against such mixing, following the more restrictive label's precautions and limitations. Do not exceed label dosage rates.

{Specific use directions will be taken from selected portions of the Bora-Care One Step label.}

{For product with only household/residential uses:}

Storage and Disposal

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

Pesticide Storage: Store in original container in a preferably locked storage area inaccessible to children and pets. Do not store in temperatures above 100°F or below 32°F. **Container Handling:** Non-refillable container; do not reuse or refill this container. **If empty:** Place in trash or offer for recycling, if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

{For product in refillable containers:}

Storage and Disposal

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

Pesticide Storage: Store in original container in a preferably locked storage area inaccessible to children and pets. Do not store in temperatures above 100°F or below 32°F. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Refillable container; refill this container only with Bora-Care One Step. Do not reuse this container for any other purpose. Cleaning the container before refilling is the responsibility of the refiller; cleaning before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water, then vigorously agitate or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure 2 more times, then offer for recycling, if available, or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

{Per PR Notice 2007-4 the batch code/lot number will appear on the label or container.}

[{Option 1}

WARRANTY DISCLAIMER

To the extent not prohibited by applicable law, Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent not prohibited by applicable law, **MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

Inherent Risks of Use

The directions for use of this product are believed to be adequate and must be carefully followed. It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions, abnormal conditions, the presence of other materials, climatic conditions or the manner of use/application, all of which are beyond the control of the Manufacturer. To the extent not prohibited by applicable law, the buyer/user assumes all such risks.

Limitation of Remedies

To the extent not prohibited by applicable law the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories) shall be limited to, at Manufacturer's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent not prohibited by applicable law: a) Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless Manufacturer is promptly notified of such loss or damage in writing; and b) **TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

The terms of this **Warranty Disclaimer** and **Limitation of Remedies** cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of this **Warranty Disclaimer** or **Limitation of Remedies** in any manner.

It is not intended that this product be used to practice any applicable patent, whether mentioned or not, without procurement of a license, if necessary, from the owner, following investigation by the user.]

[{Option 2}

[For a complete and printable Warranty Disclaimer, please visit www.nisuswarranty.com.]



Nisus Corporation
100 Nisus Drive
Rockford, TN 37853
(800) 264-0870

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