



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

March 27, 2020

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

Subject: Registration Review Label Mitigation for Boric Acid
Product Name: BOR-RAM
EPA Registration Number: 64405-18
Application Date: 10/7/2018
Decision Number: 560995

Dear Ms. Crowder:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all 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 Darius Stanton by phone at 703-347-0433, or via email at Stanton.Darius@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington".

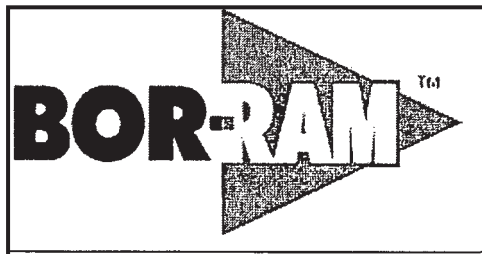
Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

ACCEPTED
Mar 27, 2020
Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 64405-18

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



Termiticide, Insecticide and Fungicide Concentrate

For the prevention and control of: Termites, Carpenter Ants, Wood Infesting Beetles, Cockroaches,
Decay Fungi, and Algae

For use in and around: Residential, Commercial, Industrial and Institutional, Fixed and Mobile, structures and in
Vehicles. Limit use to non-food areas in establishments, which store, sell or process food.

Active Ingredient:

Disodium Octaborate Tetrahydrate 40.0%

Other Ingredients 60.0%

Total 100.0%

Net Contents: 1 Gallon (3.78 Liters)

This product contains 4.36 pounds disodium octaborate tetrahydrate per gallon.

EPA Reg. No. 64405-18

EPA Est. No. _____

SEE FOLLOWING PANELS FOR PRECAUTIONARY STATEMENTS

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

If Swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor for immediate treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything to an unconscious person.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If 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 treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. [You may also contact { <i>insert appropriate toll free number</i> } for emergency medical treatment information.]	

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND 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)

Applicators and other handlers must wear long-sleeved shirt and long pants, socks, shoes, protective eyewear and chemical-resistant gloves. A ventilator or an exhaust system should be used when applying BOR-RAM in confined spaces. Clean up over-spray and spills with a damp cloth or absorb with other appropriate materials.

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.

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

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 or dried. Treated areas must not be occupied during application. Do not contaminate wells or cisterns. Do not make topical applications on materials protected by an intact water-repellent barrier such as: paint, stain or sealer.

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 during application.

Wood Preservative

BOR-RAM is a comprehensive wood preservative. BOR-RAM will control infestations of, and provide protection against, brown rot, white rot, fungi (rot), algae and the following wood destroying insects: beetles, termites and carpenter ants. When used in combination with a specified broad-spectrum fungicide BOR-RAM will prevent surface mold. Apply only to bare wood: if necessary, remove any existing surface coating, dirt and biological growth (mold, mildew and algae). For optimal results, do not expose treated material to moisture or ground contact. For exterior use do not apply during periods of precipitation and always apply a protective waterproof coating after treatment.

Mixing Instructions

BOR-RAM is a concentrated solution that must be diluted with water before use. Cold water is adequate but mixing will be accelerated by the use of warmer water and also by the use of an appropriate, hand held mixing device. It is recommended that the mix water be added first, followed by a controlled addition of BOR-RAM. Never reverse the addition sequence or prepare the treatment solution directly in the spray application equipment. When using equipment with an auxiliary mixing tank, add water and start the recirculation system before the BOR-RAM addition. Always ensure that the treatment solution is completely homogeneous before starting the application since incompletely dissolved concentrate will cause an inconsistent application or instability.

[Mixing Ratios: All references to mixing ratios expressed herein are to volume/volume mixtures of water to BOR-RAM.]

Do not store concentrated solutions (ratios of 1:1, 2:1 or 3:1) for more than 24 hrs. Use these solutions within this period. Always clean mixing tanks, transfer lines and spray equipment with water after use and on a daily basis.

BOR-RAM may be mixed with pyrethrins at 0.3% for carpenter ants and other listed insects or mixed with Mold-Ram® Fungicide (EPA Reg. No. 72304-1), a 40% active water based chlorothalonil concentrate for mold prevention. The products must be used in accordance with the more restrictive label. This product cannot be mixed with any product containing a label prohibition against such mixing. Follow the mixing directions under the mold prevention section of this label.

Application

Apply by hand sprayer, backpack sprayer, hand volume pumping system, brush, roller, mister, injection system or foaming device. Use application equipment appropriate for the application and use site. Make all applications to the point of saturation.

Where appropriate, an optional spray pattern indicator may be used to ensure that comprehensive treatment is obtained. Refer to, and follow, the dye or pigment manufacturer's instructions. In visible areas (such as hardwood floors or window-frames) where permanent marking will be an issue, a spray pattern indicator is not recommended.

Dilution Ratio Table:

Target Insect/Pest	Application (Ratios are Water to BOR-RAM)
Subterranean Termites (including Formosan termites)	Apply the 1:1 ratio by spray, injection, brush or roller. Apply 2:1 ratio for foaming applications or for misting use in inaccessible wall voids.
Drywood Termites or Carpenter Ants	Apply 1:1 ratio for all remedial treatments. Apply 2: 1 by foam or if using a misting machine. Apply 5: 1 ratio for preventative treatment.
Anobiid and Lyctid Powderpost Beetles	Apply 1:1 ratio for all remedial treatments and preventative treatment for wood larger than 4" in thickness. Apply 2: 1 ratio for treating hardwood floors. Apply 5:1 ratio for preventative treatment.
Old House Borers	Apply 1:1 ratio for all remedial treatments and preventative treatment for wood larger than 4". Apply 5:1 ratio for preventative treatment for wood less than 4" in thickness.
Decay Fungi and Algae (see footnote)	Apply 1:1 ratio for remedial treatments for wood larger than 4". Apply 3:1 ratio for remedial treatment for wood less than 4" in thickness and for cellulosic wallboard and insulation. Apply 5:1 ratio for all preventative treatments.

Footnote: BOR-RAM may be used in addition to other fungicides

General Information

BOR-RAM is not intended for application to soil. It is not a soil treatment. In areas where a soil applied termiticide treatment is required by law, BOR-RAM may be applied as a supplemental pretreatment to protect wood from subterranean termites that may penetrate chemical gaps occurring in termiticide-treated soil. When active infestations exist, get the structure inspected by a licensed termite control professional. 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.

Target Pests

BOR-RAM will provide protection against the following insects:

- Subterranean Termites: *Reticulitermes*, *Heterotermes*, *Coptotermes*
- Drywood Termites: *Kaloterms*, *Incisitermes*
- Dampwood Termites: *Zootermopsis*, *Neotermes*
- True Powderpost Beetles: *Lyctinae*,
- False Powderpost Beetles: *Bostrichidae*
- Anobiid Beetles: *Anobiidae*
- Old House Borers, Longhorned Beetles: *Cerambycidae*, *Hylotrupes*
- Ambrosia/Bark Beetles: *Platypodidae*, *Scolytidae*, *Curculionidae*
- Metallic Wood Boring Beetle: *Buprestidae*
- Carpenter Ants: *Camponotus*

* *Antrodia sinuosa*, *Antrodia xantha*, *Aureobasidium pullulans*, Basidiomycete, *Bisporia pusillas*, *Ceratocystis picea*, *Ceratocystis pluriannulata*, *Chaetomium globosum* keinze, *Coniophora cerebella*, *Coniophora olivacea*, *Coniophora puteana*, *Formes lividus*, *Fornes officinalis*, *Fornes pini*, *Formes pinicola*, *Gleophyllum abietinum*, *Gleophyllum separium*, *Gleophyllum trabeum*, *Hericium abietis*, *Heterobesidion annosum*, *Lentinus lepideus*, *Lenzites trabea*, *Merulius lacrymans*, *Ophiostoma coeruleum*, *Paecilomyces varioti*, *Phialophora* spp., *Phialophora fastigiata*, *Phialophora haffinannii*, *Phialophora heteromorpha*, *Phialophora lignicola*, *Phialophora lueto-olivacia*, *Phoma herbarum*, *Phoma lanosa*, *Polyporus abietinus*, *Polyporus rugulosus*, *Polyporus sulphureus*, *Polyporus tomentosus*, *Polyporus versicolor*, *Polystictus versicolor*, *Poria carbonica*, *Poria incrassate*, *Poria monticola*, *Poria nigrescens*, *Poria placenta*, *Poria subacida*, *Poria viallenti*, *Poria vaporaria*, *Poria xantha*, *Rh.inoclaadiella* spp., *Scerolophoma pityophila*, *Seipula lacrymans*, *Sistotrema brinkmeni*, *Stereum abietinum*, *Torulla* spp., *Trametes liliiacino-gliva*, *Trametes serialis*, *Trichocladium asperum*

With the exception of food contact surfaces and cellulosic materials protected by an intact water impermeable coating BOR-RAM may be applied to all cellulosic materials (including wood, wood composites, engineered wood and paper-based products) and masonry, metal, vinyl and other non-cellulosic construction elements protected from precipitation as a treatment to prevent subterranean termite infestation and tubing over these materials.

Use caution when spraying overhead interior areas of homes or apartments, etc. Never apply in food serving areas when food is exposed. Cover and protect all exposed surfaces with plastic sheeting or other material that can be disposed of upon contamination or after spraying. Use of soap and water to clean tools after application is recommended.

The application of BOR-RAM to wood surfaces in new construction or inside wall voids in existing structures helps control cockroaches that may come in contact with treated surfaces. One gallon of BOR-RAM 1:1 solution should cover 400 square feet of treated surface area.

Remedial Treatments

When used as a remedial treatment, BOR-RAM will eliminate and prevent infestation of Formosan and native subterranean termites, dampwood and drywood termites, wood-boring beetles, carpenter ants and decay fungi.

Where affected wood components have less than three sides exposed, treat the area twice waiting a minimum of 20 minutes between applications. Likewise, if the infestations are severe also treat the infected area twice. All applications to wood should be made to the point of saturation.

Accessible Areas

For cavities and galleries created by labeled insects (see Target Pests) in wood, either spray or inject BOR-RAM solution at the labeled rate (see Dilution Ratio Table) until the damaged area is completely saturated and cavities are completely filled. Treat susceptible areas adjacent to the attack site. Treat areas of decay in the same fashion.

Basements and Crawl Spaces

Apply BOR-RAM solution to infested areas of structural wood components including any wood exposed to vertical access from the soil or foundation wall penetration. One gallon of BOR-RAM solution should cover 400 square feet of wood surface area.

In order to prevent termite shelter tubing, treat to the point of runoff a 24inch band of the masonry walls up from the concrete slab or dirt floor with the 1:1 solution. If accessible also treat the concrete slab/basement floor 8 inches out from the masonry walls. Treat the area around utility entry points with the same concentration solution ensuring that both horizontal and vertical aspects are treated to a distance of not less than 12 inches from the penetration. Apply to a height of 24 inches on protruding utilities and any wood in close proximity to the utilities.

Wood Flooring

Remove any pre-existing surface coating by abrasion or use an aggressive cleaner. Apply BOR-RAM to wood flooring by spray, brush or roller. One gallon of BOR-RAM solution should cover 500 square feet of floor surface when mixed at the 2:1 ratio. Make two applications when treating infestations of subterranean termites. Wait a minimum of 60 minutes between applications. Treated wood must be allowed to dry completely (moisture content not more than 10% (as determined by a moisture meter) before applying new protective coatings. The time to drying will be dictated by factors such as wood species, temperature and humidity but typically 2-3 days will be required to ensure complete drying. If any surface residue remains after this period remove with a moist cloth. Once dry, prepare the surface for re-coating. Application of BOR-RAM treatment solution or removal of any residues may cause the grain of the wood to raise. If necessary, dry sand and wipe with a damp cloth. It is advisable to "spot test" an inconspicuous area of the floor before proceeding to complete the coating application.

Non-Accessible Areas

Surface application will not adequately address cavities or insect galleries in wood identified by a subsurface detection device (such as an acoustical emissions detector). Gain access via small holes and apply enough solution to completely fill the voids. Use the 1:1 ratio for all listed insects but consult the Dilution Ratio Table for addressing decay. Pressure-inject adjacent intact wood via access holes at 8 to 10 inch intervals within a radius of 24 inches of the infested wood: inject at 40 psi for 3-6 seconds per hole. Intact wood, adjacent to infested wood framing components, may also be accessible via stud voids.

For infestations in stud walls treat an area at least 6 feet out from the identified infestation and include targeted treatment of the base-plate areas (a frequent point of penetration). Gain access to stud voids via small holes in the wallboard and use spray application, misting or foaming to address infestations. Space access holes appropriate to framing configuration and adequate to reach all spaces between the studs in the target areas. Consult the Dilution Ratio Table for appropriate dilution ratios and apply enough formulation to saturate the target areas. Where possible, move insulation for enhanced access to the infested areas. Otherwise, see Insulation paragraph below. In slab construction treat an area of the concrete slab 8 inches out from the wall in the treatment zone.

Misting

Follow manufacturer's guidelines for loading and operation of the misting machine.

Foam Application

Consult the dilution ratio table for appropriate solution concentration information. Use an expansion ratio between 20 and 30 (one part BOR-RAM in 20 - 30 parts final foam). Employ a suitable foaming agent and follow manufacturer's recommendations for quantity to use to obtain the required expansion rate. When applying BOR-RAM as foam into void spaces, inject foam at the lowest accessible point in the void area until the foam exits an access hole located near the top of the void.

Insulation

Where possible, move insulation for enhanced access to the infested area. Otherwise, apply the 1:1 ratio to foam insulation by injecting the solution into the infested area. Make a supplemental spray treatment when the foam is not easily penetrated by injection.

Preventative Treatments and Pretreatments

For application in new constructions in Florida and Louisiana, do not use BOR-RAM as a primary treatment if the total linear footage of the cellulosic base plates is less than 60% of the total linear footage of all base plates in the structure including exterior and interior walls.

If the total linear footage of the cellulosic base plates is greater than 60%, but without continuous wood on every exterior wall, apply BOR-RAM to all exterior structural materials, including block or brick, to a height of 24 inches and extend out 8 inches onto the slab.

Structural wood comprises the basic wooden components required to construct the building structure. These components are normally present at the dried-in-stage of construction and include wood in direct contact with foundations, wooden sill plates, wood studs, wooden or cellulosic sheathing, floor joists, beams and sub-flooring, roof trusses, top-plates, ceiling joists, roof decking and rafters.

Perform primary pretreatments following final framing inspection and when most access to all structural wood members is available. If a primary pretreatment is made before the final framing inspection, a second visit must be made in order to treat any modifications or building components added subsequent to the final framing inspection.

Make all applications to the point of saturation.

BOR-RAM can also be used as a supplement to fumigation.

When performing applications to studs, sill plates or other wood members where less than 3 sides are exposed, treat the item twice waiting a minimum of 20 minutes between treatments. Treat both sides of exposed sheathing but if exterior sheathing is inaccessible (eg. wrapped), treat the interior side twice.

When making applications to exterior wood members, ensure that the surface is clean and free of any pre-existing coating. Remove such coatings by abrasion or use an aggressive surface cleaner. Do not make treatments while precipitation is occurring. Following treatment, cover the treated areas with a tarpaulin or other waterproof membrane if rain or snow is likely. Once completely dry (time is dependent upon ambient temperature and humidity): overcoat the treated areas with a waterproof coating. This application will extend the lifetime of the borate treatment.

Whole House Protection

BOR-RAM is effective as a primary preventative treatment for subterranean, (including Formosan), drywood and dampwood termites, carpenter ants, old house borers, powderpost and other wood boring beetles and decay fungi. For optimal results, apply BOR-RAM during the "dried-in" stage of construction when the most access to all structural wood members is available and prior to installation of insulation and mechanical systems.

For treatment against subterranean termites (including Formosan), the applicator must apply to the point of surface saturation one coat of the 1:1 ratio to all above ground framed wood surfaces as described in the next section.

Treat the following areas with the 1:1 ratio:

- Sills, plates, floor joists, piers, girders and subfloors.
- Structural wood in plumbing, electrical and ductwork areas.
- Structural wood base plates and studs on interior and exterior walls.
- Structural wood in contact with slab, interior and exterior wall studs and wall sheathing material in buildings built on slabs.
- Structural wood sill plates and structural wood contacting garages and porches.
- Structural wood and sheathing in bathrooms, kitchens and laundry rooms

Treat the following areas with the 5:1 ratio:

- All structural wood above the 24-inch continuous band treated with the 1:1 ratio
- Ceiling joists, trusses, top plates, rafters and roof decking in attics.
- Exterior wood including siding, fascias, soffits, eaves, roofing, porches, decks and railings.

Treat expansion joints (and the adjoining concrete slab and wall areas distances of 6 inches out and 24 inches up respectively from the joint) between the concrete garage slab and the adjoining house walls with the 1:1 ratio.

Buildings on Crawl Spaces and Basements

Apply BOR-RAM at the "dried-in" stage of new construction when all structural wood and sheathing is in place, but prior to insulation. As a primary treatment for subterranean termites in crawlspaces and basements apply at the 1:1 ratio in a 24-inch wide continuous horizontal band in from the exterior foundation walls and out from the support piers until all structural wood surfaces in crawl spaces and basements are saturated. Apply a continuous 24-inch vertical band up from the top of the exterior concrete or block walls. Include all sills, plates, floor joists, piers, girders, subfloors, sheathing and all structural wood exposed to direct vertical access from the soil. If there is no contact between structural wood and crawlspace or basement foundation walls at the first floor level, treat structural wood with a 24-inch band at the 1:1 ratio at the first point of contact with non-cellulosic (steel or masonry) walls. Prevent termite shelter tubes on crawl space walls and piers by applying a 1:1 ratio to concrete or block walls and piers in a 24inch band up from the ground on the interior side of all wall surfaces and all surfaces of the support piers. Typically, one gallon of solution will cover 400 square feet of surface area. When treating structural wood areas adjacent to plumbing, electrical conduit and ducts which penetrate sub-floors and provide a direct access from the soil or foundation wall penetrations, treat a 24 inch band in this area. Apply BOR-RAM to all structural wood framing elements in finished-out basements where structural wood framing is adjacent to the exterior foundation walls. Apply BOR-RAM in an 8-inch band to the concrete slab surfaces out from the basement wall. Spray both exterior and interior concrete or block foundation basement walls with a 24-inch band up from the slab area. Where accessible, apply BOR-RAM to the entire perimeter of the exterior structural wood areas as a 24- inch band up from the top of the exterior concrete or block walls. If the structure contains multiple stories, only treat the first story above the masonry foundation level. Treat all interior structural wood elements of the first story within 24 inches of the exterior masonry foundation wall with the 1:1 ratio. BOR-RAM may be applied to coated or painted structural wood by injecting solution into holes drilled at 8 to 10 inch intervals. Inject at 40 psi for 3-6 seconds per hole.

Buildings on Slabs

As a primary pretreatment for subterranean termites apply BOR-RAM at the 1:1 ratio to all base plates, the bottom 24 inches of all studs, the bottom 24 inches of all walls (including steel, concrete, masonry, block and brick). Treat only the inside of exterior masonry walls. Also treat 8 inches out onto the concrete slab surface from the plates and from exterior masonry walls.

Where accessible treat both sides of exterior sheathing. Apply a minimum 24-inch-wide barrier of treatment to all structural wood in plumbing walls and structural wood adjacent to plumbing, electrical conduit and duct penetrations. Treat all slab surfaces at least one foot out from all bath trap penetrations and all plumbing penetrations at least 24 inches up from the slab using the 1:1 ratio. Critical areas such as plumbing penetrations, utility entry sites, shower drain penetrations, expansion joints, foundation cracks and abutting slabs (or other termite entry points) not associated with any structural wood must be sprayed up from the non-soil surface to 24 inches high and covering at least six inches of slab surface area out from the penetration with the 1:1 ratio.

In structures comprised of less than 60% wooden base-plates, where structural wood (such as roof trusses, top-plates, etc.) or cellulosic sheathing contacts non-wood framing or exterior masonry walls apply the 1:1 ratio to all cellulosic components in a 24 inch band around the contact point. Treat structural cellulosic components (such as wall framing) in contact with exterior masonry walls.

Foam Insulation

Apply BOR-RAM at the 1:1 ratio to easily penetrated foam insulation by injecting the solution or by low-pressure spray application. Use a combination of these applications to treat foams, which are not easily penetrated.

Other Target Pests

Consult the "Dilution Ratio Table" for BOR-RAM concentrations applicable to preventative treatments for listed target pests. Make all applications to the point of saturation. Duplicate the treatment to any wood components, which have less than 3 sides exposed or where infestations are severe. Wait a minimum of 20 minutes between applications. Post

treatment emergence of wood boring beetles is possible but will rarely cause structural damage and will not give cause for concern.

Treatment of Exterior Wood

In addition to residential or commercial building components (such as eaves, soffits, facias and siding) exterior use includes such constructions as fences, decks and gazebos, porches, sheds and log structures, but not wood in ground contact. The presence of mold and mildew and/or algae on exterior building components indicates the presence of a persistent moisture issue. Address the moisture issue and remove mold and mildew with an appropriate cleaning product prior to performing any treatment to these areas. For preventative mold and mildew treatments with BOR-RAM consult the "Mold Prevention on Building Materials" section of this label. Remediate algae with BOR-RAM according to the "Dilution Ratio Table" of the label. Prevent algal infestations by application of the 5: 1 ratio solution.

For remedial insect treatments apply the 1:1 ratio to the point of saturation. For preventative insect treatments consult the Dilution Ratio Table for appropriate dilution ratio information and apply to the point of saturation. Make duplicate treatments to wood members with less than 3 sides exposed or where infestations are severe. Wait a minimum of 20 minutes between applications. Treat twice log sills and larger dimensional lumber or items such as poles, posts, beams and pilings, which have a cross-sectional area greater than 70 square inches. When treating larger items extend the wait period between treatments to three times that for small dimension lumber.

When making topical applications to exterior wood members, ensure that the surface is clean and completely free of any pre-existing coating. Remove such coatings, and any mold, mildew and algae, by abrasion or with an appropriate surface cleaner. Rinse the surface with water to remove any remaining residues and allow to dry. Do not make treatments while precipitation is occurring. Following treatment, cover the treated areas with a tarpaulin or other waterproof membrane if rain or snow is likely. Once the treated item is completely dry (time is dependent upon ambient temperature and humidity), overcoat the treated areas with a waterproof coating. This application will extend the lifetime of the borate treatment. As with many other protective or decorative coatings, ensure that the surface is free of any residues and, if required, apply light sanding before the initial coat and/or between any subsequent coats. It is recommended to "spot test" an inconspicuous area of the item before proceeding to complete the coating application.

Treating Log Structures, Timbers and Beams

Treat log structures, timbers, beams and other large cross section (greater than 70 square inches) items according to the directions in the "Treatment of Exterior Wood" section. When treating log structures, treat crosscut areas twice. Prior to treatment, prepare both interior and exterior surfaces as described above. Clean dirt and other contaminants from uncoated interior wood with an appropriate surface cleaner and wash with clean water. Allow to dry before applying BOR-RAM. Coat treated exterior sections as described above. If desired, apply stain or other transparent coatings to treated interior wood. (This will, however, complicate retreatment at a later date). Apply a water impermeable coating to interior treated wood in areas, which will receive frequent exposure to water.

When logs and lumber are available before construction commences these items may be dip treated as an alternative to treatment during or after construction. Dip treat by submerging wood in the 5:1 ratio solution for at least one minute or until emitted air is no longer obvious. The solution must cover all wood surfaces. Protect treated items from precipitation as described in the "Treatment of Exterior Wood" section. Drying time will be dictated by temperature and humidity and may take 2 - 3 days.

Retention Rates

A mixed solution of one gallon of water with one gallon of BOR-RAM should cover 800 board feet of wood to a minimum retention level of 0.084 pounds per cubic foot boric acid equivalent (BAE). Use the following formulas to calculate the amount of BOR- RAM needed for the volume of wood being treated (not just the surface area):

Dimensional Lumber: Thickness (inches) x Width (inches) x Length (feet) + 12 = Board Feet

Note: this calculation should be performed with the **actual** lumber dimensions and not the "rough sawn" dimensions normally associated with dimensional lumber.

Log Homes: Height (inches) x Thickness (inches) x Perimeter (feet) x # of Courses + 12 = Board Feet

For siding and paneling, a mixed solution of one gallon of water with one gallon of BOR- RAM should cover 800 square feet of lynch thick wood by spraying one side. If siding or paneling is Yi inch thick, a mixed solution of one gallon of water with one gallon of BOR-RAM should cover 1,600 square feet.

Control of Algae on Cellulosic Building Components

Treat existing algae or prevent new growth on cellulosic building components with BOR- RAM. Refer to Dilution Ratio Table for mixing rates. For spray application, one gallon of solution should cover 400 square feet. Spray, mist or foam enclosed areas such as stud voids to treat wallboard or insulation.

For Mold Prevention on Building Materials

For mold prevention on building materials such as wood, concrete, gypsum wallboard and masonry block and for control of rot and decay fungi and protection from listed wood destroying insects and beetles, BOR-RAM can be tank-mixed with Mold-Ram fungicide. Mix BOR-RAM with water at a ratio of 1-gallon BOR-RAM to 5 gallons of water and add 15 oz of Mold-Ram (2.5 oz per gallon) to the BOR-RAM/water mixture.

For mold prevention on building materials such as wood, concrete, gypsum wallboard and masonry block and control of rot and decay fungi and protection from listed termites and wood destroying insects and beetles, BOR-RAM can be tank-mixed with Mold-Ram fungicide. Mix BOR-RAM with water at a ratio of 1-gallon BOR-RAM to 1 gallon of water and add 5 oz of Mold-Ram (2.5 oz per gallon) to the BOR-RAM/water mixture.

{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 freeze. **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 packaged in rigid, non-refillable containers less than or equal to 5 gallons:}

Storage and Disposal

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

Pesticide Storage: Store in a cool, dry (preferably locked) storage area inaccessible to children and pets. Do not freeze. **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:** Nonrefillable container; do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times, then offer for recycling, if available; or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

{For product packaged in rigid, non-refillable containers greater than 5 gallons:}

Storage and Disposal

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

Pesticide Storage: Store in a cool, dry (preferably locked) storage area inaccessible to children and pets. Do not freeze. **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:** Nonrefillable container; do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, if available; or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

{The Batch Code or Lot Number will appear either on the container or labeling per PR Notice 2007-4}

{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.]



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[] Denotes alternate/optional language

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