

64405-8

6/13/2005

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

JUL 13 2005

Ms. Kim Davis, Agent for  
Nisus Corporation  
c/o RegWest Company  
38056 Rocky Road,  
Greely CO 80631-9375

Subject: Resubmission of additional information for a label amendment under the Federal Fungicide, Insecticide and Rodenticide Act as amended for the following purposes:

- For the control of clothes moths, carpet beetles, mold and rot in wool insulation.
- For the control of fleas and dust mites in carpets and other fabrics.
- For the treatment of polystyrene insulation during manufacture to control in-service termite and carpenter ant damage.

Product Name: Nibor borate Insecticide and Fungicide  
EPA Reg. No. 64405-8  
Date of Submission: August 13, 2004, followed with a resubmission dated August 17, 2004, and a subsequent resubmission dated February 1, 2005.  
OPP Identifier No. 295978

Dear Ms. Davis,

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable subject to the comments listed below. Five copies of the finished labeling must be submitted prior to releasing the product for shipment.

With all of the information provided thus far by Nisus Corporation, the Agency has concluded the following:

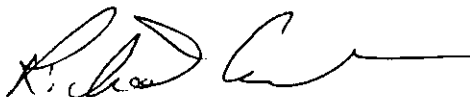
1. Nisus Corporation must remove all uses on carpets and other fabrics identified on the label (9 pages) for the use to control fleas and dust mites. The registered source supply for the active ingredient does not support this intended use. Please refer to the Federal Register, 23, March 1994, 59(56); 13719-13720.

2. The cited data are adequate for the inclusion of clothes moths, carpet beetles, mold and rot when used as directed to protect wool insulation.

3. The additional information provided with the resubmission, was not submitted in accordance with 86-5 for inclusion into the Agency's data tracking system, therefore this information cannot be used to support the use of treatment of polystyrene insulation during manufacture to control inservice termite and carpenter ant damage. Nisus Corporation is may submit this document (as outlined in the attached DER) for reconsideration when the data is presented in accordance with 86-5. Therefore, remove the claim and any labeling associated with the following claim "For the Treatment of Polystyrene Insulation during Manufacture to Control Inservice Termite and Carpenter Ant Damage."

If you have any questions, you may contact Richard J. Gebken, at (703) 305-6701.

Sincerely,



Richard Gebken  
Product Manager 10  
Insecticide Branch  
Registration Division (7505C)

Enclosure (efficacy review) dated July 11, 2005.

Conditionally stamped approved label.

064405-00008 S774795.wpd

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(General Use Label)

# NiBor™ Borate Insecticide and Fungicide

For the prevention and remedial control of wood\* infesting organisms including:  
Termites, Drywood Termites, Wood Destroying Beetles, Decay Fungi and Carpenter Ants  
\*Also for Wood Foam Composite Structural Components

For the Control and Prevention of General Pests

A wood preservative for protection and treatment of lumber against  
fungal decay and wood destroying insects including termites

For the Control and Prevention of Common Mildew and Fungus

For the Control of Clothes Moths, Carpet Beetles, Mold and Rot in Wool Insulation

For the Control of Annosus Root Disease (*Heterobasidion annosum* (Fr.) Bref.) in Freshly Cut Stumps

For the Control of Fleas in Carpets and Other Fabrics

Aids in the Control of Dust Mites in Carpets and Other Fabrics

For the Treatment of Polystyrene Insulation during Manufacture to Control  
In-Service Termite and Carpenter Ant Damage

**Active Ingredient:**

Disodium Octaborate Tetrahydrate (Na <sub>2</sub> BO <sub>13</sub> •4H <sub>2</sub> O) .....	98%
<b>Other Ingredient+</b> .....	2%
Total .....	100%

+Contains 2% H<sub>2</sub>O – Absorbed Moisture

EPA Reg. No. 64405-8

EPA Est. 64405-TN-1

**ACCEPTED**  
with **COMMENTS**  
EPA Letter Dated:  
JUL 13 2005

Net Weight: \_\_\_\_\_

**Keep Out of Reach of Children**  
**CAUTION**

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans & Domestic Animals**

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

64405-8

**CAUTION:** Harmful if swallowed or inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Thoroughly wash with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**First Aid**

<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If Inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.</p>	

{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}

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### Personal Protective Equipment

Applicators and handlers must wear waterproof gloves, eye protection, protective clothing (e.g., long sleeve shirt, long pants, shoes plus socks) and a NIOSH/MSHA-approved dust/mist mask respirator (in confined spaces) when utilizing powder or solution.

*{Product packaged in containers of 50 pounds will bear the following Environmental Hazards statements:}*

#### Environmental Hazards

This pesticide is toxic to fish and wildlife. 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.

*{Product packaged in containers less than 50 pounds will bear the following Environmental Hazards statements:}*

#### Environmental Hazards

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to 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.

### 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 Liability Limitations** statement found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Disclaimer and Liability Limitations**.

### DIRECTIONS FOR USE

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

### General Insect Control

#### General Information

**NIBOR** is a water soluble inorganic borate salt with insecticidal properties effective against general pests, including the target pests listed below. Apply as a liquid solution, mop solution, foam or dust. Use as a remedial treatment to kill and control existing infestations or as a preventative treatment for possible future infestations of general pests such as, but not limited to, those listed below:

**Roaches** (including German, Brown-banded, Smokey Brown, Brown, American, Australian and Oriental Roaches), **Silverfish**, **Earwigs**, **Crickets** (including House Crickets, Field Crickets and Camel Crickets), **General Ants** (including Argentine, Thief, Little Black, Pavement, Odorous House, Crazy and Ghost Ants), **Carpenter Ants**, **Boxelder Bugs**, **Cluster Flies**, **Centipedes** and **Millipedes**.

Use **NIBOR** as a dust or liquid crack, crevice, void and spot treatment for the control and prevention of general pests, such as ants, crickets, earwigs, roaches and silverfish. Use only as a crack and crevice treatment in food areas of food handling establishments, restaurants or other places where food is commercially prepared or processed. Do not use in edible product areas of these food-handling establishments. Do not use in serving or other food areas while food is exposed. Do not contaminate feed and foodstuffs. **Applications of this product in the food areas of food handling establishments other than as a crack and crevice treatment are not permitted.**

Use **NIBOR** in homes, restaurants, markets, schools, warehouses, factories, offices, hotels, hospitals, nursing homes, garages, grocery stores, apartment buildings, new construction, industrial plants, theaters, ships, trains, trucks, yachts, mobile homes, buses, zoos, kennels, military bases, libraries, utilities and on railroad ties. Apply **NIBOR** only in areas inaccessible to children and pets. **Do not use NIBOR for flea control.**

**Note:** Spraying water on some wood species can mobilize natural wood extractives, raise the grain and leave behind calcium or other deposits. Prior to treating large areas, treat a small area with **NIBOR** solution to ensure that you are satisfied with the final aesthetics.

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### Preparation of a Treatment Solution

**15% NIBOR Liquid Solution:** To prepare solution, add approximately 80% of the required volume of water to the mixing vessel. While stirring, gradually add 1.5 pounds of NIBOR for each gallon of treating solution required. Add remaining water to the solution and stir until the entire product has dissolved. Use this solution as soon as possible and do not store for an extended length of time.

Wash and rinse all equipment after each use.

### Application Instructions

**NIBOR Application as a Dust:** Dust NIBOR into wall voids, cracks and crevices, moist areas, openings around pipes and sinks, under refrigerators, behind baseboards and storage shelves to kill and prevent infestations of ants, crickets, cockroaches, silverfish and other insect pests and arthropods. No powder should be visible after application. Remove or brush any powder visible after application into cracks and crevices.

**NIBOR Application as a Liquid:** Apply NIBOR 15% liquid solution as a crack and crevice, void and spot treatment to kill and control infestations of ants, crickets, cockroaches, earwigs and silverfish. Apply NIBOR 15% liquid solution into cracks and crevices, void areas, between elements of construction, between equipment and floors, openings leading to voids and hollow spaces in walls, equipment legs and bases and areas where insects hide. Do not introduce the material into the air. Apply the NIBOR 15% liquid solution for general insect control as a spot treatment to outside areas of structures around windows, doorframes and other areas where insect pests may enter. Product may leave a light residue on dark surfaces. Residual effects of NIBOR will last longer in areas protected from weather and elements.

**Note:** Do not apply NIBOR liquid solutions in conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard.

**Directions for Applying NIBOR as a Mop Solution:** Add 8 ounces of NIBOR to each gallon of rinse water. Apply to floor areas only for the supplemental control of pests including ants and cockroaches. Make only enough for each application. This is to be used as a supplemental treatment in conjunction with other pest management practices and may be reapplied as necessary. Remove or brush any powder visible after application into cracks and crevices. Do not contaminate feed and foodstuffs.

**Directions for Applying NIBOR to Control Mildew and Fungus (Except in California):** Mix NIBOR at the rate of 8 ounces of powder to 1 gallon of water. In areas affected by mildew and fungus, apply to certain surfaces to kill and control mildew and fungus in conjunction with conventional moisture control practices such as repairing leaking structural components or pipes, lowering interior humidity levels and, where possible, providing adequate ventilation. Apply as a spot treatment to affected surfaces including baseboards and wall areas. **DO NOT APPLY NIBOR TO CARPET AREAS.** Reapply as necessary.

### Wood Treatment

#### General Information

NIBOR is a water soluble, inorganic borate salt with insecticidal and fungicidal properties effective against wood-destroying organisms including the target pests listed below. Apply NIBOR as a liquid solution, powder or foam. NIBOR is an effective treatment for wood (and wood-foam composite structural components) to kill and prevent infestations of decay fungi including white rot, brown rot (i.e., *Poria*) and wet rots. This product may be used for preventative treatment (before signs of infestation), for wood in existing structures and for remedial treatment of infested wood in existing structures. This product may also be used for pre-treatment of wood before or during the construction process. NIBOR is also effective for the prevention and control of wood destroying insects such as, but not limited to, the following organisms:

**Subterranean Termites** (*Reticulitermes*, *Heterotermes*, *Coptotermes* (*Formosan*)), **Drywood Termites** (*Kalotermes*, *Incisitermes*), **Dampwood Termites** (*Zootermopsis*), **Powderpost Beetles** (*Lyctidae*), **"False" Powderpost Beetles** (*Bostrichidae*), **Deathwatch and Furniture Beetles** (*Anobiidae*), **Old House Borers**, **Longhorn Beetles** (*Cerambycidae*), **Carpenter Ants** (*Camponotus*), **Bark and Timber Beetles** (*Scolytidae*).

NIBOR is recommended for wood and cellulose material in accordance with the specific treatment methods described herein. NIBOR is effective for all interior and exterior wood (and wood-foam composite structural components) that will be protected from excessive rain and not in direct contact with the soil. Types of wood include, but are not limited to, all types of lumber, logs and plywood. This product kills wood-destroying organisms. Some etching of treated wood may occur from organisms before they die. Do not apply NIBOR to wood or cellulose material that has been painted, varnished or sealed. For best results, apply NIBOR to bare wood. Use soap and water to clean application equipment.

**Note:** Spraying water on some wood species can mobilize natural wood extractives, raise the grain and leave behind calcium or other deposits. Prior to treating large areas, treat a small area with NIBOR solution to ensure that you are satisfied with the final aesthetics.

#### Preparation of Treatment Solutions

**10% NIBOR Liquid Solution:** To prepare solution, add approximately 80% of the required volume of water to the mixing vessel. While stirring, gradually add 1.0 pound of NIBOR for each gallon of treating solution required. Add remaining water to the solution and stir until the entire product has dissolved.

**15% NIBOR Liquid Solution:** Prepare solution as above, but gradually add 1.5 pounds of NIBOR for each gallon of treatment solution needed. [To prepare solution, add approximately 80% of the required volume of water to the mixing vessel. While stirring, gradually add 1.5 pounds of NIBOR for each gallon of treating solution required. Add remaining water to the solution and stir until the entire product has dissolved.] Use this solution as soon as possible and do not store for an extended length of time.

**15% NIBOR Foam:** Prepare a 15% liquid solution as described above and also add a surfactant-foaming agent. Generally 1-2 ounces of a foaming agent, added to the 15% liquid solution, produces a dry foam with the desired expansion ratio of approximately 20 to 1 (20 gallons of foam per 1 gallon of liquid solution). The NIBOR foam should be of a "dry" consistency that adheres to wood surfaces so that run-off is minimized. A "wet" foam may damage wallboard or other building components. Refer to the individual foam equipment manufacturer's manual and the surfactant's label for specific instructions.

Wash and rinse all equipment after each use.

#### General Application Instructions

**NIBOR as a liquid solution:** NIBOR liquid applications may be made to wood structures including decks, fences, steps, sheds, barns and other outbuildings. On wood with drier than normal moisture content, apply by brush or spray two applications of a 10% solution to wood surfaces. On wood with normal moisture content, apply by brush or spray one application of a 15% solution to wood surfaces. Application may also be made by drilling and then injecting the solution under pressure into sound wood or into the insect galleries of infested wood. NIBOR may be applied as a foam to wood surfaces or injected into wall voids or insect galleries.

#### Remedial and Preventative Treatment

**NIBOR Solutions for the Control of Wood Destroying Organisms and to Kill Active Infestations of Termites, Powderpost Beetles and Wood Decay Fungi:** For remedial control of wood attacking organisms or for the protection of wood against future infestations, two applications of a 10% liquid solution are normally required. One application of a 15% liquid solution may be used. Apply NIBOR solutions by brush or spray at the rate of 5 gallons of liquid solution per 1000 square feet of wood surface area. Thoroughly wet wood surface area. Application may also be made by drilling and then injecting the liquid solution under pressure into sound wood or until run-off is observed coming from entry/exit holes of infested wood.

**NIBOR Powder to Kill and Control Wood Destroying Organisms, Such as Termites and Carpenter Ants:** Apply NIBOR as is to wood members by drilling and injecting the powder into galleries or by dusting generously on wood surfaces. NIBOR powder can also be injected or dusted into wall voids such as between studs, block voids, box sills, eaves, attics, soffets, etc. Apply NIBOR powder to these areas at the rate of 0.5 ounce (12-14 grams) per square foot.

**NIBOR Foam:** In wall voids, inject enough dry foam to contact wood surfaces of studs in the wall or the entire desired target area. Apply foam, where possible, to abutting wood surfaces and between wood joints. Apply the foam so that all accessible wood surfaces are covered with foam. NIBOR foam can also be injected into insect galleries until run-off is observed.

**Wood Treatment During Construction for Prevention of Wood Destroying Organisms: During Construction:** Spray, foam or powder applications of NIBOR may be made to wood. Apply a NIBOR liquid solution to all accessible surfaces of bare wood at a rate of approximately 5 gallons per 1000 square feet of wood surface area. Apply after framing and roofing are in place and before insulation and dry wall are installed. Do not spray electrical components or other non-wood components. Treat end-cuts of wood by application methods listed above, or by dipping end-cuts for 1-5 minutes in a NIBOR 10% liquid solution. Apply powder applications of NIBOR after framing and roofing are in place and before insulation and dry wall are installed. Apply powder at the rate of 0.5 ounce (12-14 grams) per square foot to wall stud areas, box sills, roof eaves, attics and soffets.

Protect newly treated wood from excessive rain or moisture.

### Dip-Diffusion Treatment

**Preparation of Solutions:** To prepare solutions described below, add water to the tank to approximately 80% of the volume of solution required. Raise water temperature to the desired level and, with good agitation, gradually add the calculated amount of NIBOR. Add remaining water to the solution and agitate for an additional 10 minutes to ensure that all of the product has dissolved. The temperature of the solution should be maintained during treatment. Upon cooling some borate may crystallize out of the solution, but will redissolve when the solution is heated for the next treatment session. In very cold weather, provide some heating or insulation to prevent solidification in the bottom of the tank. Cover the tank when not in use to prevent contamination and evaporation.

#### Suggested Conditions and Solution Strengths for Dip-Diffusion

Lumber Thickness	Pounds of NiBOR per Gallon of Solution	Solution Temperature	Diffusion Complete In
Up to 1 inch (2.5 cm)	1.40	105°F (40°C)	2 to 4 weeks
1 to 1.75 inches (2.5 to 4.0 cm)	1.80	120°F (50°C)	4 to 6 weeks
1.75 to 2.5 inches (4.0 to 6.5 cm)	2.50	130°F (55°C)	4 to 6 weeks
2.5 to 3 inches (6.5 to 7.5 cm)	2.80	135°F (57°C)	6 to 8 weeks
*Lumber over 3 inches (7.5 cm) in thickness or over 5 inches (12.5 cm) in width should be dipped twice, 24 to 72 hours apart.			

**Dip-Diffusion Method of Application:** Dip freshly-cut lumber in a tank containing a hot liquid solution of NIBOR for 2 to 5 minutes. After dipping, stack the newly treated wood and store under a tarpaulin or shed roof to slow the drying process and prevent wash-off by rainfall, thus improving penetration. Diffusion of the wood preservative into the interior of the wood will start immediately and will require several weeks to thoroughly penetrate the lumber, depending on the species and thickness of wood. The dip-diffusion method of treatment can result in complete penetration throughout the cross-sectional area of treated lumber.

### Pressure Treatment

Pressure treatment of wood should result in a retention of 0.3 lb./sq.ft. (4.8 kg/m<sup>3</sup>) NIBOR in the assay zone specified in American Wood Preservers Association (AWPA) Standard C-2 for waterborne preservatives. The concentration of the solution must be adjusted to give the correct retention for wood species and size being treated; in general, solutions are in the range of 1-2% (0.1-0.2 lb./gal.) w/v. Consult standards C-1 and C-2 of the AWPA Book of Standards regarding treatment times, pressures and temperatures necessary for various wood species.

Cut clean wood to dimension, dry to less than 25% moisture (as oven dry weight) and sticker before treating. If several species are being treated at once, choose the treatment schedule for the most difficult to treat species. If both sapwood and heartwood are included, use the schedule for heartwood to ensure adequate loading.

### For Wool Insulation and Woolen Carpets/Materials Treatment Against Clothes Moths, Carpet Beetles and Decay Fungi (Mold and Rot)

Use a 5% to 10% active solution (1/2 to 1 pound NIBOR per gallon of water) in the final rinsing bowl of scouring and treat wet wool by emersion prior to drying and carding. Alternatively, NIBOR may be applied by spray to dry wool products. Heated water improves wool fiber penetration. In both cases the minimum target retention on a dry weight basis is 1% to 5% boron to control decay fungi and insect infestation (beetles and moths).

### For Annosus Root Disease Control

**NIBOR Solutions to Control Annosus Root Disease (*Heterobasidion annosum* (Fr.) Bref.) to Treat the Top of Freshly Cut Stumps:** Dilute NIBOR to a 5% active solution by thoroughly mixing 1/2 pound NIBOR per gallon of water. Using a mechanical harvester, back-pack sprayer or hand-held sprayer apply solution to the surfaces of freshly cut stumps immediately or within 3 days of felling. Apply to the point of wetness. A rate of one gallon solution per four hundred (400) square feet of stump surface area will treat 400 to 2,000 stumps, depending on stump size. Marker dye may be added to the solution as a visual treatment aid.

### For Polystyrene Insulation Treatment

To treat polystyrene insulation during manufacture to control termite and carpenter ant in-service damage, dilute 1 to 3 pounds NIBOR in a gallon of water to make a 10% to 30% active solution. Use heated water when making solutions with greater than 10% active. Apply the solution by spray to loose polystyrene beads prior to blowing and forming. Target the rate to achieve a final boron retention between 0.2% and 0.5%, as required. Check retention by chemical analysis.

### To Control Fleas and Aid in the Control of Dust Mites in Carpets and Other Fabrics

Prior to broadscale application, test an inconspicuous area for compatibility. For best results, thoroughly clean carpets and other areas to be treated. Prepare a 10% active solution by thoroughly mixing 1 pound NIBOR with 1 gallon of water. Treat areas to be treated at the rate of 1 gallon active solution per 800 square feet. Alternatively, apply the 10% active solution, using a commercial carpet/fabric cleaning machine, as the rinse after cleaning. For control of dust mites this product must be used in conjunction with an approved treatment for potential sources of repopulation that require control measures, such as the box spring, mattress, pillows and encasings, or other approved treatments may be used.

#### Storage and Disposal

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

**Pesticide Storage:** Store in a dry place. Do not store where children or animals may gain access. **Disposal:** If empty: Do not reuse this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency [or 1-800-CLEANUP] for disposal instructions. Never place unused product down any indoor or outdoor drain.

#### Warranty Disclaimer and Liability Limitations

Except as expressly set forth herein manufacturer makes no warranty, whether expressed or implied, including without limit, the implied warranties of merchantability and fitness for a particular purpose, both of which are hereby expressly disclaimed. Manufacturer will not be liable for direct, consequential or incidental damages, including without limitation lost profits or any health-related claims, damages or injuries, even if manufacturer is aware of the possibility of these damages occurring. Buyer's sole remedy and manufacturer's sole liability shall be limited solely to product replacement. Further, varying conditions may affect the use and application of the product and manufacturer does not guarantee complete or permanent prevention of decay or insect or fungal infestation.

**Nisus Corporation**  
100 Nisus Drive • Rockford, TN 37853  
(800) 264-0870  
www.nisuscorp.com

© \_\_\_\_\_  
Made in the U.S.A.

[ ] Indicates alternate/optional language

{ } Indicates language that will not appear on the market labeling



# NIBOR™ Borate Insecticide and Fungicide

A preservative for protection and treatment of wood against fungal decay and wood destroying insects including termites

For the prevention and remedial control of wood\*\* infesting organisms including: Termites, Drywood Termites, Wood Destroying Beetles, Decay Fungi and Carpenter Ants

\*\*Also for Wood Foam Composite Structural Components

**Active Ingredient:**

Disodium Octaborate Tetrahydrate ( $\text{Na}_2\text{B}_8\text{O}_{13}\cdot 4\text{H}_2\text{O}$ ) ..... 98%

**Other Ingredient+** ..... 2%

Total ..... 100%

+Contains 2%  $\text{H}_2\text{O}$  – Absorbed Moisture

\* {Product Name} and the House Design trademark are registered trademarks of U.S. Borax Inc. and are used under license.

EPA Reg. No. 64405-8

EPA Est. 64405-TN-1

Net Weight: \_\_\_\_\_

Keep Out of Reach of Children

## CAUTION

### PRECAUTIONARY STATEMENTS

#### Hazards To Humans & Domestic Animals

**CAUTION:** Harmful if swallowed or inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Thoroughly wash with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

#### First Aid

<b>If Swallowed</b>	<ul style="list-style-type: none"><li>• Immediately call a poison control center or doctor for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If Inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}

#### Personal Protective Equipment

Applicators and handlers must wear waterproof gloves, eye protection, protective clothing (e.g., long sleeve shirt, long pants, shoes plus socks) and a NIOSH/MSHA-approved dust/mist mask respirator (in confined spaces) when utilizing powder or solution.

**Note:** Spraying water on some wood species can mobilize natural wood extractives, raise the grain and leave behind calcium or other deposits. Prior to treating large areas, treat a small area with NIBOR solution to ensure that you are satisfied with the final aesthetics.

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{Product packaged in containers of 50 pounds will bear the following Environmental Hazards statements:}

#### Environmental Hazards

This pesticide is toxic to fish and wildlife. 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.

{Product packaged in containers less than 50 pounds will bear the following Environmental Hazards statements:}

#### Environmental Hazards

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to 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.

#### 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 Liability Limitations** statement found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Disclaimer and Liability Limitations**.

#### DIRECTIONS FOR USE

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

#### Storage and Disposal

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

**Pesticide Storage:** Store in a dry place. Do not store where children or animals may gain access. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal: {Paper or Plastic Bags:}** Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. **{Plastic Containers:}** Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### General Information

**NIBOR** is a water soluble, inorganic borate salt with insecticidal and fungicidal properties effective against wood-destroying organisms including the target pests listed below. Apply **NIBOR** as a liquid solution, powder or foam. **NIBOR** is an effective treatment for wood (and wood-foam composite structural components) to kill and prevent infestations of decay fungi including white rot, brown rot (i.e., *Poria*) and wet rots. This product may be used for preventative treatment (before signs of infestation), for wood in existing structures and for remedial treatment of infested wood in existing structures. **NIBOR** is also effective for the prevention and control of wood destroying insects such as, but not limited to, the following organisms:

**Subterranean Termites** (*Reticulitermes*, *Heterotermes*, *Coptotermes* (*Formosan*)), **Drywood Termites** (*Kaloterms*, *Incisitermes*), **Dampwood Termites** (*Zootermopsis*), **Powderpost Beetles** (*Lyctidae*), **"False" Powderpost Beetles** (*Bostrichidae*), **Deathwatch and Furniture Beetles** (*Anobiidae*), **Old House Borers, Longhorn Beetles** (*Cerambycidae*), **Carpenter Ants** (*Camponotus*), **Bark and Timber Beetles** (*Scolytidae*)

**NIBOR** is recommended for wood and cellulose material in accordance with the specific treatment methods described herein. **NIBOR** is effective for all interior and exterior wood (and wood-foam composite structural components) that will be protected from excessive rain and not in direct contact with the soil. Types of wood include, but are not limited to, all types of lumber, logs and plywood. This product kills wood-destroying organisms. Some etching of treated wood may occur from organisms before they die. Do not apply **NIBOR** to wood or cellulose material that has been painted, varnished or sealed. For best results, apply **NIBOR** to bare wood. Use soap and water to clean application equipment.

**Note:** Spraying water on some wood species can mobilize natural wood extractives, raise the grain and leave behind calcium or other deposits. Prior to treating large areas, treat a small area with **NIBOR** solution to ensure that you are satisfied with the final aesthetics.

### Preparation of Treatment Solutions

**10% NIBOR Liquid Solution:** To prepare solution, add approximately 80% of the required volume of water to the mixing vessel. While stirring, gradually add 1.0 pound of NIBOR for each gallon of treating solution required. Add remaining water to the solution and stir until the entire product has dissolved.

**15% NIBOR Liquid Solution:** Prepare solution as above, but gradually add 1.5 pounds of NIBOR for each gallon of treatment solution needed. Use this solution as soon as possible and do not store for an extended length of time.

**15% NIBOR Foam:** Prepare a 15% liquid solution as described above and also add a surfactant-foaming agent. Generally 1-2 ounces of a foaming agent, added to the 15% liquid solution, produces a dry foam with the desired expansion ratio of approximately 20 to 1 (20 gallons of foam per 1 gallon of liquid solution). The NIBOR foam should be of a "dry" consistency that adheres to wood surfaces so that run-off is minimized. A "wet" foam may damage wallboard or other building components. Refer to the individual foam equipment manufacturer's manual and the surfactant's label for specific instructions.

Wash and rinse all equipment after each use.

### General Application Instructions

**NIBOR as a liquid solution:** NIBOR liquid applications may be made to wood structures including decks, fences, steps, sheds, barns and other outbuildings. Such structures must be protected from excess rain. On wood with drier than normal moisture content, apply by brush or spray two applications of a 10% solution to wood surfaces. On wood with normal moisture content, apply by brush or spray one application of a 15% solution to wood surfaces. Application may also be made by drilling and then injecting the solution under pressure into sound wood or into the insect galleries of infested wood. NIBOR may be applied as a foam to wood surfaces or injected into wall voids or insect galleries.

### Remedial and Preventative Treatment

**NIBOR Solutions for the Control of Wood Destroying Organisms and to Kill Active Infestations of Termites, Powderpost Beetles and Wood Decay Fungi:** For remedial control of wood attacking organisms or for the protection of wood against future infestations, two applications of a 10% liquid solution are normally required. One application of a 15% liquid solution may be used. Apply NIBOR solutions by brush or spray at the rate of 5 gallons of liquid solution per 1000 square feet of wood surface area. Thoroughly wet wood surface area. Application may also be made by drilling and then injecting the liquid solution under pressure into sound wood or until run-off is observed coming from entry/exit holes of infested wood.

**NIBOR Powder to Kill and Control Wood Destroying Organisms, Such as Termites and Carpenter Ants:** Apply NIBOR as is to wood members by drilling and injecting the powder into galleries or by dusting generously on wood surfaces. NIBOR powder can also be injected or dusted into wall voids such as between studs, block voids, box sills, eaves, attics, soffets, etc. Apply NIBOR powder to these areas at the rate of 0.5 ounce (12-14 grams) per square foot.

**NIBOR Foam:** In wall voids, inject enough dry foam to contact wood surfaces of studs in the wall or the entire desired target area. Apply foam, where possible, to abutting wood surfaces and between wood joints. Apply the foam so that all accessible wood surfaces are covered with foam. NIBOR foam can also be injected into insect galleries until run-off is observed.

### Warranty Disclaimer and Liability Limitations

Except as expressly set forth herein manufacturer makes no warranty, whether expressed or implied, including without limit, the implied warranties of merchantability and fitness for a particular purpose, both of which are hereby expressly disclaimed. Manufacturer will not be liable for direct, consequential or incidental damages, including without limitation lost profits or any health-related claims, damages or injuries, even if manufacturer is aware of the possibility of these damages occurring. Buyer's sole remedy and manufacturer's sole liability shall be limited solely to product replacement. Further, varying conditions may affect the use and application of the product and manufacturer does not guarantee complete or permanent prevention of decay or insect or fungal infestation.

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