

83465-1

11/23/2009

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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

NOV 23 2009

Strate Chem
c/o Ms. Kim Davis, Consultant/Agent
RegWest Company, LLC
30856 Rocky Road
Greeley, CO 80631

Dear Ms. Davis:

Subject: Label Amendment
GB-40™
EPA Registration Number: 83465-1
Application Dated: August 27, 2009
Decision: 419956

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely,

A handwritten signature in black ink, appearing to read "Kimberly Nesci".

Kimberly Nesci
Product Manager 11
Insecticide Branch
Registration Division 7507P

Enclosures: Copy of Stamped Approved Label

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{Front Panel}

GB-40™

Glycol Borate 40%
Termiticide, Insecticide and Fungicide Concentrate

For the 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)	40%
Other Ingredients	60%
Total	100%

Net Contents: 1.0 Gallon (3.78 Liters) Net Weight: 11.5 Pounds (5.2 Kilos)
[Net Contents: 5 Gallons 55 Gallons 250 Gallons 275 Gallons]

EPA Reg. No. 83465-1 EPA Est. 83465-TN-1
U.S. Patent Nos. 5,104,664, 5,460,816, 5,645,828, 6,426,095, 6,630,174

StrateChem™
2115 Frank Bird Boulevard • Rockford, TN 37853
© _____ Made in the U.S.A.

ACCEPTED
NOV 23 2009
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 83465-1

{Back Panel}

GB-40™
Termiticide, Insecticide and Fungicide Concentrate
A Product of StrateChem™

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

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.

Active Ingredient:

Disodium Octaborate Tetrahydrate (CAS No. 12280-03-4)	40%
Other Ingredients	60%
Total	100%

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EPA Reg. No. 83465-1 EPA Est. 83465-TN-1
U.S. Patent Nos. 5,104,664, 5,460,816, 5,645,828, 6,426,095, 6,630,174

Keep Out of Reach of Children

CAUTION

First Aid
Borate Pesticide

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 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.}

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.

{For product in containers less than 5 gallons:}

Environmental Hazards

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:}

Environmental Hazards

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.

Net Contents: 1 Gallon (3.78 Liters) Net Weight: 11.5 Pounds (5.2 Kilos)
[Net Contents: 5 Gallons 55 Gallons 250 Gallons 275 Gallons]

StrateChem™
2115 Frank Bird Boulevard • Rockford, TN 37853
866-390-2436

{Affixed Booklet}

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
Borate Pesticide

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.
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<p>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 1-800-424-9300 for emergency medical treatment information.]</p>	

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{For product in containers less than 5 gallons:}

Environmental Hazards

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:}

Environmental Hazards

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.

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.

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. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

Applicators, mixers and other handlers must wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves and protective eyewear. When applying GB-40 solutions in confined spaces, provide ventilation or an exhaust system or use of a NIOSH-approved dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) with a prefilter approved for pesticides (MSHA/NIOSH approval prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval prefix TC-14G) or a NIOSH-approved respirator with any N, R, P or HE prefilter is recommended.

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.

I. Mixing Instructions

GB-40 is a concentrate that **must** be diluted with clean water before use. The use of warm or hot water, if available, and an impeller-type mixer that can be used with an electric drill aids the dilution process.

- Hand Sprayers:** Mix in a clean container and stir the solution until completely uniform. Always mix in a separate container then add the solution to a spray tank. Mixing GB-40 concentrate directly in a spray tank can block hoses and nozzles.
- Hand Volume Pumping Systems:** Add all of the dilution water to tank, start recirculator and slowly add GB-40 concentrate. Mix until uniform.

Use 1:1, 2:1 and 3:1 GB-40 solutions within 24 hours after mixing. 5:1 solutions 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.

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GB-40 solutions 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) for mold, in accordance with the most restrictive of label limitations and precautions. Do not exceed ~~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 XVII ~~XVI~~ below.

For tracking purposes [(to make it easier to see where GB-40 solutions have been applied)] an appropriate marker dye or pigment may be added to the GB-40 solution. Refer to the dye or pigment product label for the recommended amount to add to the GB-40 solution. GB-40 concentrate may also be diluted with approved water-based water repellants or coatings at dilution ratios listed on the repellant/coating label provided the ratios are greater than 1 [one] part water to 1 [one] part GB-40.

Use soap and water to clean up tools.

II. Dilution Ratios by Volume

Table A

Target Pests	Mixing Ratios Water plus GB-40	Application Notes
Subterranean and Formosan Termites	1:1 or 2:1	For remedial and preventative treatments apply a 1:1 dilution ratio for all treatments by spray, injection, brush or roller. The 2:1 dilution ratio may be used for foaming or, for application into inaccessible wall voids, may be used in a misting machine.
Drywood Termites	1:1, 2:1 or 5:1	For remedial treatment apply the 1:1 or 2:1 by foam or by misting using a misting machine. Use the 5:1 dilution ratio for prevention.
Anobiid and Lyctid Powderpost Beetles	1:1, 2:1 or 5:1	For all remedial treatments use a 1:1 dilution ratio. Logs > 4" require a 1:1 dilution ratio for prevention. Use a 2:1 dilution ratio for treating hardwood floors. Use the 5:1 dilution ratio for prevention.
Old House Borers, Longhorned Beetles and Ambrosia Beetles	1:1 or 5:1	Use the 1:1 dilution ratio for remedial and preventative treatment in wood > 4" in thickness . Use the 5:1 dilution ratio for prevention in wood less than 4" in thickness .
Carpenter Ants	1:1, 2:1 or 5:1	Use the 1:1 dilution ratio for all remedial treatments. Use the 2:1 dilution ratio for remedial treatments applied by foam or with a misting machine (or applicator). Use the 5:1 dilution ratio for prevention.
Fungi (Rot) and Algae	1:1, 3:1 or 5:1	For remedial control use a 1:1 dilution ratio on wood members 4" thick or greater in thickness . Use a 3:1 dilution ratio for wood less than 4" in thickness. For prevention use a 5:1 dilution ratio.

Table B

Materials to Be Treated	Mixing Ratios Water plus GB-40	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" thick or less in thickness .
Logs, Large Beams and Dimensional Lumber	See target pests in Table A	Use the 5:1 dilution ratio only for dip treatment for insect prevention. May be used in conjunction with other fungicides for fungi (rot) control.

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Table B (continued)

Materials to Be Treated	Mixing Ratios Water plus GB-40	Application Notes
Cellulosic Drywall and Insulation	1:1, 3:1 or 5:1	Use the 3:1 dilution ratio for active remedial treatment of dry rot. Use the 5:1 dilution ratio for prevention of dry rot. May be used in conjunction with other fungicides.

Table C

Parts Water	Part GB-40	% Disodium Octaborate Tetrahydrate
1	to 1	23%
2	to 1	16%
3	to 1	13%
5	to 1	9%

III. General Information

GB-40 solution is not intended for application to soil; it is not a soil termiticide. Do not use to directly treat soil. When active infestations exist, get a professional inspection. Prior to using this product, you should consult with your state regulatory agency to see if they require additional qualifications are required to apply for the person applying this product.

GB-40 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. GB-40 solution 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, continuous water or in direct contact with the ground. The active ingredient in GB-40 is an inorganic salt and once in place it will not decompose or volatilize out of the wood.

Subterranean Termites: *Reticulitermes*, *Heterotermes*

Formosan Termites: *Coptotermes*

Drywood Termites: *Kaloterms*, *Incisitermes*

Dampwood Termites: *Zootermopsis*, *Neotermes*

Powderpost Beetles: *Lyctinae*, *Lyctidae*, *Bostrichidae*

Anobiid Beetles: *Anobiidae*

Old House Borers, Longhorned Beetles: *Cerambycidae*, *Hylotrupes*

Ambrosia Beetles: *Platypodidae*, *Scolytidae*

Carpenter Ants: *Camponotus*

Brown Rot (including dry rot), White Rot, Wood Decay and Listed Fungi

Antrodia sinuosa

Antrodia xantha

Aureobasidium pullulans

Basidiomycete

Bisporia pusillas 132

Ceratocystis pluriannulata

Ceratocystis picea

Chaetomium globosum

keinze

Coniophora cerebella

Fomes pinicola

Gloeophyllum abietinum

Gloeophyllum sepiarium

Gloeophyllum trabeum

Hericium abietis

Heterobesidiana annosum

Lentinus lepideus

Lenzites trabea

Merulius lacrymans

Ophiostoma coeruleum

Phialophora lignicola

Phialophora lueto-olivacea

Phoma herbarum

Phoma lanosa

Polyporus abietinus

Polyporus rugulosus

Polyporus sulphureus

Polyporus tomentosus

Polyporus versicolor

Polystictus versicolor

Poria subacida

Poria viallantii

Poria vaporaria

Poria xantha

Rhinochlaia spp.

Scerophoma pityophila

Serpula lacrymans

Sistotrema brinkmenii

Stereum abietinum

Torulla spp.

XXXXX = additions; XXXXX = deletion

<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</i> 698	<i>Trichocladium asperum</i>
<i>Fomes officinalis</i>	<i>Phialophora haffmannii</i>	<i>Poria nigrescens</i> 4856	
<i>Fomes pini</i>	<i>Phialophora heteromorpha</i>	<i>Poria placenta</i>	

GB-40 solutions 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 GB-40 solutions 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 GB-40 solutions have been applied) an appropriate marker dye or pigment may be added to the solution when diluting GB-40 with water. Refer to the dye or pigment product label for recommended amount to add to the GB-40 solution. GB-40 may also be diluted with approved water-based water repellants or coatings at dilution ratios listed on the repellant/coating label that are greater than one part water to one part GB-40.

When spraying overhead interior areas of homes, apartment buildings, etc., cover or protect all surfaces below the areas to be treated being sprayed with plastic sheeting or other material that can be and 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 GB-40 solution 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, GB-40 solution will both eliminate and 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 GB-40 is an inorganic salt and once in place it will not decompose or volatilize out of the wood.

[The active ingredient in GB-40, disodium octaborate tetrahydrate, is toxic to listed insects, decay fungi and algae. Once the GB-40 solution 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 GB-40 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 GB-40 solution into beetle holes, termite and carpenter ant galleries and decay pockets. Apply 1 [one] ~~(1)~~ coat of GB-40 solution to the point of surface saturation to all infested and susceptible wood, paying particular attention to infested areas. Apply 2 [two] ~~(2)~~ coats of GB-40 solution to those wood members with only 1 [one] ~~(1)~~ or 2 [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. For specific pests to be controlled refer to Table A for applicable mixing instructions.

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 solution to completely flood galleries or voids. Adjacent intact wood may be treated by pressure injecting GB-40 solution into holes drilled into the wood at 8 [eight] ~~(8)~~ to 10 [ten] ~~(10)~~ inch intervals. Inject at 40 psi for 4 [four] ~~(4)~~ to 6 [six] ~~(6)~~ seconds per hole.

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

- B. Basements and crawl spaces:** Apply 1 [one] ~~(1)~~ coat of ~~all over~~ GB-40 solution 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 1 [one] ~~(1)~~ or 2 [two] ~~(2)~~ sides of wood members, such as sills and plates on foundation walls, apply 2 [two] ~~(2)~~ coats of GB-40 solution. Allow first application to dry by waiting at least 20 minutes between applications. One gallon of solution will treat 200 square feet of floor area (subfloor, floor joists, header and sill plates) or 50 linear feet of 8 foot high stud walls.
- C. Buildings on concrete slabs:** Apply GB-40 solution into wall voids by foaming (See Section IV.F.) 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 GB-40 solution 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 6 [six] ~~(6)~~ inches of concrete 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 2:1 GB-40 solution [(2 [two] ~~(2)~~ parts water to 1 [one] ~~(1)~~ part GB-40)] ~~(2:1) solution~~ at a rate of approximately 1 [one] ~~(1)~~ gallon of solution per 500 square feet of floor surface. For treating infestations of subterranean or Formosan termites, 2 [two] ~~(2)~~ coats may be required, waiting at least 1 [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. GB-40 solution applications may raise the grain of the wood and an additional light sanding may be necessary before applying a new finish. The GB-40 solution 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 (See Section IV.F.) 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 1 [one] ~~(1)~~ hole must be drilled between each wall stud when treating base plates. Use sufficient amount of solution material to cover all areas to the point of surface saturation.
- Note:** Existing insulation may interfere with distribution of the GB-40 solution. If necessary, move or displace insulation during or prior to treatment.
- F. Foam application:** Apply GB-40 solution to bare wood surfaces and void areas as a foam by mixing 2 [two] ~~(2)~~ parts water with 1 [one] ~~(1)~~ part GB-40 (2:1) and adding 3 [three] to 8 [eight] ounces of foaming agent per gallon of mixed solution. Foam will take approximately 1 [one] ~~(1)~~ hour to return to liquid state and soak into bare wood. Apply foamed GB-40 solution to void spaces at a 1:20 to 1:30 foam ratio (1 [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 3 [three] ~~(3)~~ feet apart in a grid pattern. Inject 2 [two] ~~(2)~~ to 4 [four] ~~(4)~~ fluid ounces of GB-40 solution 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 2:1 GB-40 solution [(2 [two] ~~(2)~~ parts water to 1 [one] ~~(1)~~ part GB-40)] ~~(2:1) solution~~ to the fogging device reservoir. Fog the area with enough GB-40 solution to completely wet all exposed wood surfaces. Apply approximately 1 [one] ~~(1)~~ gallon of solution for every 400 to 800 cubic feet of void volume. In heavily infested areas, supplement fogging with direct spray applications. If fogging is for control of subterranean or Formosan termites, 2 [two] ~~(2)~~ separate applications may be necessary. Wait at least 2 [two] hours between re-application. 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 a 1:1 GB-40 solution [(1 [one] ~~(1)~~ part water to 1 [one] ~~(1)~~ part GB-40)] ~~(1:1) solution~~ into the infested area and/or by low pressure surface spraying at a rate of 1 [one] ~~(1)~~ gallon per 300 to 400 square feet. GB-40 solution may also be mixed with approved topically-applied insulation products. To protect insulation from infestation, premix the appropriate amount of GB-40 solution with foaming materials during or prior to installation that will achieve a 0.5-1.5% by weight retention.
- Note:** Some types of in place 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 GB-40 solution to concrete, block or brick on the interior of crawlspace and basement foundations to prevent shelter tubing by subterranean termites. Apply a 1:1 GB-40 solution ~~(1:1)~~ [(1 [one] ~~(1)~~ part water to 1 [one] ~~(1)~~ part GB-40)] ~~solution~~ at

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the rate of 1 [one] ~~(1)~~ gallon to 400 square feet of surface area. In crawlspaces, apply solution 2 [two] ~~(2)~~ feet [24 inches] up from the ground on interior wall surfaces. In unfinished basements with bare concrete slabs, apply the 1:1 GB-40 ~~(1:1)~~ solution 2 [two] ~~(2)~~ feet [24 inches] up from the concrete slab on interior foundation walls. In addition to the wall treatment, extend application up to 6 [six] ~~(6)~~ inches away from foundation walls onto the horizontal surface of the bare concrete slab. Treat bath trap areas in concrete slab construction, after obtaining access to the area, by evenly applying 8 [eight] ~~(8)~~ ounces of the 1:1 GB-40 solution into the traps in at least a 1 [one] ~~(1)~~ foot [12 inches] band covering all sides on the concrete slab surface area out from the trap area. Treat other termite access areas (such as plumbing penetrations, expansion joints and abutting concrete slabs) by applying the 1:1 GB-40 solution in at least a 1 [one] ~~(1)~~ foot [12 inches] band covering all sides of the concrete slab surface area out from the penetration and by treating protruding utilities and adjacent wood to a height of 2 [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: GB-40 solution is not intended for application to soil.

GB-40 solution 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. GB-40 solution 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 1 [one] ~~(1)~~ coat of a 1:1 GB-40 solution [(1 [one] ~~(1)~~ gallon water to 1 [one] ~~(1)~~ gallon GB-40)] ~~(1:1) solution~~ 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 in a 5:1 GB-40 solution [(5 [five] ~~(5)~~ parts water to 1 [one] ~~(1)~~ part GB-40)] ~~(5:1) 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 and/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 concrete slabs, treat all structural wood in contact with the concrete 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 1 [one] ~~(1)~~ or 2 [two] ~~(2)~~ sides of a wood member, including exterior wall base plates and any married studs, apply 2 [two] ~~(2)~~ coats of GB-40 solution 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 Treatments and Pretreatments for Subterranean Termites (Crawl Space, Basement and Concrete Slab)

Note: This treatment serves as a primary treatment for the control of subterranean termites. This product must be applied with a 1:1 GB-40 solution [(1 [one] part water to 1 [one] part GB-40)] dilution ratio of 1:1 water:GB-40.

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.

In areas where access is limited to 1 [one] or 2 [two] sides of a wood member, including exterior wall base plates and any married studs, apply 2 [two] coats of GB-40 solution to the exposed surfaces. Allow first application to dry by waiting at least 20 minutes between applications.

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 linear footage of base plates, but without continuous wood on every exterior wall, the GB-40 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 1 [one] (1) coat of a 1:1 GB-40 solution [(1 [one] (1) gallon water to one 1 [one] (1) gallon (1:1) GB-40 solution] in a 2- [two-] (2) foot [24-inches] 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 1:1 GB-40 solution to crawlspace concrete or block walls in a 2- [two-] (2) foot [24-inches] band up from the ground on interior wall surfaces. Apply at the rate of 1 [one] (1) gallon to 400 square feet of surface area. Treat a 2- [two-] (2) foot [24-inches] 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 the concrete slab surface a minimum of 2 [two] (2) up to a maximum of 8 [eight] (8) inches. To prevent termite shelter tubes on basement walls, spray all interior concrete or block foundation walls with a 2- [two-] (2) foot [24-inches] band up from the concrete slab area. Apply the 1:1 GB-40 solution at the rate of 1 [one] (1) gallon per 400 square feet of concrete foundation wall area.

On structural wood where access is limited to 1 [one] (1) or 2 [two] (2) sides of wood members, such as sills and plates and headers on foundation walls, married studs or wrapped sheathing, apply 2 [two] (2) coats of GB-40 solution. 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 2- [two-] foot [24-inches] wide band of a 1:1 GB-40 solution 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 GB-40 solution into holes drilled into the wood at 8- [eight-] (8) to 10- [ten-] (10) inch intervals. Inject at 40 psi for 4 [four] (4) to 6 [six] (6) seconds per hole.

- B. Buildings on concrete slabs (including structures with little or no structural wood in contact with the concrete slab foundation):** Apply 1 [one] (1) coat of a 1:1 GB-40 solution [(1 [one] (1) gallon water to 1 [one] (1) gallon GB-40)] (1:1) solution to all wood, metal and/or non-cellulosic base plates and the bottom 2 [two] (2) feet [24-inches] of all wood, metal and/or non-cellulosic studs on all exterior and interior walls in contact with the concrete slab. Treat at the rate of 1 [one] gallon of solution to 200 linear feet of stud walls. Treat all wood in plumbing walls, bath traps and any wood adjacent to plumbing, electrical conduit and duct penetrations to provide a minimum 2- [two-] foot [24-inches] wide barrier of treatment between the bottom of the penetration site and the balance of the structure. ~~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 1 [one] (1) or 2 [two] (2) sides of a structural wood member, such as sills and plates on foundation walls, married studs or wrapped sheathing, apply 2 [two] (2) coats of GB-40 solution to the exposed surfaces. Allow first application to dry by waiting at least 20 minutes between applications. ~~When spraying base plates, also treat the concrete slab a minimum of 2 [two] inches to a maximum of 8 [eight] inches out from plates.~~ Treat the concrete slab where any visible cracks may be occurring, extending treatment 8 [eight] to 12 inches out on each side of the concrete slab crack.

~~Treat all penetrations (such as plumbing, expansion joints and abutting concrete slabs) by spraying the 1:1 GB-40 solution up to 2- [two-] feet [24 inches] high and extending application to cover at least 6 [six] inches of concrete slab out from penetration site. 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 a 1:1 GB-40 solution 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 8 [eight] (8) ounces of the 1:1 GB-40 solution to a maximum of ~~sixteen (16)~~ ounces per square foot of trap. Treat all concrete slabs at least 1 [one] foot out from all bath trap penetrations. ~~any penetrations (such as plumbing, expansion joints and abutting slabs) not associated with any nearby structural wood by spraying the 1:1 GB-40 solution 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.~~

Concrete, cinder block or or non-cellulosic exterior walls must be treated with a 1:1 GB-40 solution 2 [two] feet [24-inches] on the interior side of wall surface up from the concrete slab. This treatment must be applied as a continuous 2- [two-] foot [24-inches] barrier to all interior surfaces of all exterior walls. Treat at the rate of 1 [one] gallon of a 1:1 GB-40 solution to 400 square feet of surface area.

[For application to new construction in the State of Florida: Do not use GB-40 solution 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 structures with 60% or more lineal footage of base plates, but without continuous wood on every wall, the GB-40 solution treatment must be applied to all other structural construction materials, including brick or block, in a continuous band to a height of 2 [two] feet [24-inches] and extended out onto the concrete slab a minimum of 2 [two] to a maximum of 8 [eight] inches.]

- C. **Foam insulation:** Treat with low-pressure surface spraying or by injecting a 1:1 GB-40 solution [(1 [one] ~~(1)~~ part water to 1 [one] ~~(1)~~ part GB-40)] ~~(1:1) solution~~ to the infested area at the rate of 1 [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.

- D. **Mulch beds:** GB-40 solution may be applied to wood chip mulch beds with a 5:1 GB-40 solution [(5 [five] parts water to 1 [one] part GB-40)] at the rate of 1 [one] gallon of solution to 800 square feet of bed area. This application will reduce worker termite populations that may be feeding on wood mulch found next to a structure. Do not spray directly at the base of plantings or directly onto foliage. This application is not intended to be applied to soil or as a substitute for a primary GB-40 solution subterranean termite treatment; it is only to be used as a supplemental treatment.

VII. Preventative Treatment for Drywood Termites and Powderpost Beetles

Apply 1 [one] ~~(1)~~ coat of a 5:1 GB-40 solution [(5 [five] ~~(5)~~ gallons water to 1 [one] ~~(1)~~ gallon GB-40)] ~~solution~~ to the point of surface saturation to all structural wood surfaces using a brush, spray or mist. Apply 2 [two] ~~(2)~~ coats of GB-40 solution to those surfaces where access is limited to 1 [one] ~~(1)~~ or 2 [two] ~~(2)~~ sides of structural wood members. Allow 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 1 [one] ~~(1)~~ coat of GB-40 solution to the point of surface saturation to all wood surfaces. Apply 2 [two] ~~(2)~~ coats of GB-40 solution to heavily infested areas and to those surfaces where access is limited to 1 [one] ~~(1)~~ or 2 [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 GB-40 solution will require a topcoating with a water-resistant finish such as paint or exterior stain. Apply the finish or topcoat within 6 [six] ~~(6)~~ weeks of treatment. It is important to allow GB-40 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 a 1:1 GB-40 solution [(1 [one] ~~(1)~~ part water to 1 [one] ~~(1)~~ part GB-40)] ~~(1:1) solution~~ to the point of surface saturation to all interior and exterior wood surfaces. Refer to application chart for minimum amount of GB-40 to treat various sized logs or beams; typically, two (2) coats of solution are required to treat round logs 10" or greater in diameter and

rectangular logs larger than 6" x 12". Apply 2 [two] [2] coats of GB-40 solution to log ends, notches, corners and sill logs. Wait at least 1 [one] [1] hour before re-application.

Actual number of coats necessary to meet minimum requirements will depend upon actual wood size, surface porosity and number of sides accessible for treatment. Refer to application chart for the minimum amount of GB-40 solution needed to treat various sized logs or beams. Typically, 2 [two] coats of solution are required to treat round logs 10" or greater in diameter and rectangular logs larger than 6" x 12". Wait at least 1 [one] hour before re-application. 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 GB-40 solution will require a topcoating with a water-resistant finish, paint or exterior stain. Apply the finish or topcoat within 6 [six] [6] weeks of treatment. It is important to allow GB-40 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 5:1 GB-40 dip treating solution by mixing [(5 [five] [5] parts water to 1 [one] [1] part GB-40)] [5:1]. 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 1 [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

A GB-40 solution 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 GB-40 solution 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 the GB-40 solution at the rate of 1 [one] [1] gallon of solution 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 the GB-40 solution using a misting machine (or applicator) applying sufficient solution to cover surfaces at the rate of 1 [one] [1] gallon per 400 square feet. Refer to **Tables A and B** for mixing ratios for preventative and remedial algae treatments.

The GB-40 solution can also be applied to exterior stone and concrete walkways and walls for the prevention and control of algae growth. Apply a 5:1 GB-40 solution [(5 [five] gallons of water to 1 [one] gallon GB-40)] at the rate of 1 [one] gallon of solution per 400 square feet of walkway or wall surface area. Do not spray abutting grass or plantings.

XIII. General Pest Control Applications

The application of GB-40 solution 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, and Pharaoh ants), silverfish, earwig, boxelder bug, millipede and cricket infestations that

come in direct contact with these treated areas. Apply 1 [one] ~~(1)~~ gallon of GB-40 solution per 400 square feet of surface area or refer to Tables A and B when applying as a surface application.

XIV. GB-40 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:** GB-40 is a concentrated mixture 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 (*Kaloterms*, *Incisitermes*)

Powderpost Beetles (*Lyctinae* ~~Lyctidae~~, *Bostrichidae*)

Anobiid Beetles (*Anobiidae*)

Old House Borers, Longhorned Beetles (*Cerambycidae*)

Carpenter Ants (*Camponotus*)

- B. **Surface Preparation:** Apply only to bare wood or to wood surfaces where an intact water repellent or other finish is not present. Remove any previous finishes or water repellents before application of the GB-40 solution. Surfaces must be free of dirt and other contaminants. Prior to treatment, clean with a strong detergent all interior, unfinished surfaces that are to be treated and that have accumulated dirt or cooking oils. If finished appearance is a concern, prior to application of GB-40 solution, remove any mold or mildew with an appropriate wood cleaner followed by thorough surface rinsing.

C. Application Instructions:

- 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.

- 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 1 [one] ~~(1)~~ coat of: either a 1:1 GB-40 solution [(1 [one] ~~(1)~~ part water to 1 [one] ~~(1)~~ part GB-40)] ~~(1:1) solution~~ for remedial control of wood-infesting insects; a 2:1 GB-40 solution [(2 [two] parts water to 1 [one] part GB-40)] foam or mist; a 3:1 GB-40 solution [(3 [three] ~~(3)~~ parts water to 1 [one] ~~(1)~~ part GB-40)] ~~(3:1)~~ for remedial control of fungi (rot); ~~two (2) parts water to one (1) part GB-40 (2:1) foam or mist solution~~ or a 5:1 GB-40 solution [(5 [five] ~~(5)~~ parts water to 1 [one] ~~(1)~~ part GB-40)] ~~(5:1) solution~~ for insect and fungi (rot) prevention. Apply 2 [two] ~~(2)~~ coats of GB-40 solution to heavily infested areas and to those surfaces where access is limited to 1 [one] ~~(1)~~ or two 2 [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.
- 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 a 1:1 GB-

XXXXX = additions; XXXXX = deletion

40 solution [(1 [one] (1) part water to 1 [one] (1) part GB-40)] (1.1) solution to all interior and exterior wood surfaces. Refer to application chart for the minimum amount of GB-40 solution to treat various sized logs or beams. Typically, 2 [two] (2) coats of solution will be required to treat round logs 10" or greater in diameter and rectangular logs larger than 6" x 12". Wait at least 1 [one] (1) hour between applications. Also apply 2 [two] (2) coats of GB-40 solution 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 5:1 GB-40 dip treating solution by mixing [(5 [five] (5) parts water to 1 [one] (1) part GB-40)] (5:1). 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 1 [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 GB-40 solution require a topcoating with a water-resistant finish such as paint or exterior stain. Apply the finish or topcoat within 6 [six] (6) weeks of treatment. It is important to allow GB-40 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 GB-40 concentrate (2 [two] (2) gallons of GB-40 solution as applied) will treat 800 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 GB-40 solution needed on the volume of wood being treated, not just the surface area. Use the following formulas to calculate the required amount of GB-40 solution:

**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 GB-40 concentrate (2 [two] (2) gallons of solution) will treat 800 sq. ft. of 1" thick wood by spraying only one side. If siding or paneling is 1/2" thick, 1 [one] (1) gallon of GB-40 concentrate (2 [two] (2) gallons of solution) treats 1,600 sq. ft.

XV. Application Rates

Table A – Dimensional Lumber

Lumber Size (Inches)	1 Gallon of Diluted GB-40 Will Treat Up To	Minimum Amount of Diluted GB-40 To Treat 1000 Lineal Feet
1 x 4	1,200 Lineal Feet	0.8 Gal.
1 x 12	400	2.6

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Table A – Dimensional Lumber (continued)

Lumber Size (Inches)	1 Gallon of Diluted GB-40 Will Treat Up To	Minimum Amount of Diluted GB-40 To Treat 1000 Lineal Feet
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
(1:1 or 2:1 mixing ratio)

Thickness (Inches)	1 Gallon of Diluted GB-40 Will Treat Up To	Minimum Amount of Diluted GB-40 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 the 1:1 mixing ratio)

Diameter (Inches)	1 Gallon of Diluted GB-40 Will Treat Up To	Minimum Amount of Diluted GB-40 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 1 [one] gallon of GB-40 solution to 400 board feet of wood.

XVI. GB-40 Solution to Control Annosus Root Disease (*Heterobasidion annosum* (Fr.) Bref.) To Treat the Top of Freshly Cut Stumps

Dilute GB-40 to a 5% solution by thoroughly mixing 1 [one] gallon of GB-40 with 9 [nine] gallons of water. Using a mechanical harvester, back-pack sprayer or hand-held sprayer, apply solution to the point of wetness to the surfaces of freshly cut stumps immediately after or within 3 days of felling. One gallon of solution will treat 200 square feet of stump surface area (approximately 200 to 1,000 stumps, depending on stump size). Marker dye may be added to the solution as a visual aid.

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XVII. 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 GB-40® in 5 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.

GB-40 can **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 GB-40 label.}

{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 Management:** 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.

Batch Code [Lot Number]: _____

{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 Management:** 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.

Batch Code [Lot Number]: _____

Warranty Disclaimer

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.**

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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. 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) **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.

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[] Denotes alternate/optional language

{ } Denotes language that will not appear on market labeling