

# BORA-CARE<sup>®</sup>

## Termiticide, Insecticide, Fungicide

**Bora-Care is a termite treatment that is applied to wood and other construction materials.**

Bora-Care replaces soil termiticides in new construction and serves as a primary termite treatment on the HUD-99-A form. Bora-Care can also be used as a remedial treatment to treat homes that have been infested by termites, beetles or carpenter ants. Once Bora-Care is applied to the wood, it remains in the wood for the life of the structure, delivering long-term residual protection. It will protect interior wood as well as exterior wood that remains painted or sealed.

**Bora-Care's proprietary borate-based glycol formulation improves penetration to help kill and prevent infestation from:**

- termites
- carpenter ants
- wood boring beetles
- decay fungi



Applying Bora-Care to a structure is a sustainable choice for builders, and they can earn green points in many green building programs by using Bora-Care for their termite pretreatments. Bora-Care also offers a 30-year damage repair warranty to Pest Management Professionals who register their homes and inspect them annually.



**More than 2,000,000 homes have been treated with Bora-Care.**



**Opportunity knocks on wood.**

Wood is the most expensive component of a home—protect it with Bora-Care.



**For Prevention  
and Control of:**

- Subterranean Termites which includes Formosan Termites
- Drywood Termites
- Carpenter Ants
- Listed Wood Destroying Beetles
- Fungi (Rot)
- Algae

# **BORA-CARE®**

**TERMITICIDE, INSECTICIDE, AND FUNGICIDE CONCENTRATE**

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY  
STATEMENTS AND COMPLETE DIRECTIONS FOR USE.



**NISUS®**

**ACTIVE INGREDIENT:**

Disodium Octaborate Tetrahydrate (CAS No. 12280-03-4) . . . . . 40%

**OTHER INGREDIENTS** . . . . . 60%

**TOTAL** . . . . . 100%

EPA REG. NO. 64405-1 • EPA EST. 64405-TN-1

U.S. PATENT NO. 7,597,902

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MADE IN THE U.S.A.

## FIRST AID

<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for 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 treatment advice.</li></ul>
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.	

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### Personal Protective Equipment (PPE)

Applicators, mixers and other handlers must wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves (made of barrier laminate; butyl, nitrile, neoprene and natural rubbers  $\geq 14$  mils; polyethylene; polyvinyl chloride; and viton  $\geq 14$  mils) and protective eyewear.

### User Safety Requirements

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

### User Safety Recommendations

#### Users should:

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

## Environmental Hazards

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

*(For product in containers less than 5 gallons)*

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

*(For product in containers 5 gallons or greater)*

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to intertidal areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your state water board or regional office of the EPA.

## DIRECTIONS FOR USE

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

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

Applications to carpets are prohibited.

Do not exceed label dosage rates. Do not mix this product with any other product if prohibited by that label.

## Notice

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

Before 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 on food contact surfaces or 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 shrubs and other plants that may be potentially exposed to this product.

## I. Mixing Instructions

Bora-Care is a concentrate that **must** be diluted with clean water or a combination of water and permitted insecticide and/or repellent/coating, and/or antimicrobial before use. The use of warm or hot water is not required, but, if available, can aid the dilution process. A power impeller-type mixer can be used with an electric drill to shorten mixing time.

**A. Manual Applications:** Mix in a clean container and stir the solution until completely uniform prior to use.

**B. Mechanical Systems:** Add all of the dilution water to tank, start recirculator and slowly add Bora-Care concentrate. Mix until uniform.

Use 1:1, 2:1 and 3:1 Bora-Care 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. Rinse equipment and lines with water after use.

For tracking purposes (to make it easier to see where Bora-Care solutions have been applied) an appropriate marker dye or pigment may be added as part of the diluent to the Bora-Care solution. Refer to the dye or pigment product label for the recommended amount to add to the Bora-Care solution. Bora-Care concentrate may also be diluted with approved water-based water repellents or coatings at dilutions listed on the repellent/coating label provided the ratios are greater than 1 part water to 1 part Bora-Care.

Use soap and water to clean up tools.

## II. Dilution Ratios by Volume

**Table A – General Dilution Rates**

<b>Target Pests</b>	<b>Mixing Ratios Diluent PLUS Bora-Care</b>	<b>Application Notes</b>
Subterranean Termites which includes Formosan Termites	1:1 or 2:1	For remedial and preventative treatments apply a 1:1 dilution for all treatments by spray, injection, brush or roller. The 2:1 dilution may be used for foaming or misting, for application into inaccessible wall voids.
Drywood Termites	1:1, 2:1 or 5:1	For remedial treatment apply the 1:1 or 2:1 dilution by foam or by misting. Use the 5:1 dilution for prevention.
Anobiid and Lyctinae Powderpost Beetles	1:1 or 5:1	For all remedial treatments use a 1:1 dilution. Use a 5:1 dilution for treating hardwood floors. Use the 5:1 dilution for prevention.
Old House Borers, Longhorned Beetles and Ambrosia Beetles	1:1 or 5:1	Use the 1:1 dilution for remedial and preventative treatment in wood > 4" thick. Use the 5:1 dilution for prevention in wood less than 4" thick or hardwood floors.
Carpenter Ants	1:1, 2:1 or 5:1	Use the 1:1 dilution for all remedial treatments. Use the 2:1 dilution for remedial treatments applied by foam or with a misting machine (or applicator). Use the 5:1 dilution for prevention.
Fungi (Rot) and Algae	1:1, 3:1 or 5:1	For remedial control use a 1:1 dilution on wood members 4" thick or greater. Use a 3:1 dilution for wood less than 4" thick or for active remedial treatment of dry rot. For prevention use a 5:1 dilution. May be used at a 5:1 dilution to control and prevent fungi on wood less than 4" thick when mixed with other fungicides.

**Table B**

<b>Parts Diluent to Part Bora-Care</b>	<b>% Disodium Octaborate Tetrahydrate</b>
1 to 1	23%
2 to 1	16%
3 to 1	13%
5 to 1	9%
Use 1:1, 2:1 and 3:1 Bora-Care solutions within 24 hours after mixing; 5:1 solutions will remain stable for up to 30 days. Do not leave unused portion under pressure or in tank overnight. Clean and/or flush equipment and lines with water after use.	

### III. Product Information

Bora-Care is not intended for application to soil; it is not a soil termiticide. **Do not use to directly treat soil. Prior to using this product, consult with your state regulatory agency to see if there are additional requirements beyond the label.**

Bora-Care 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 preventative treatment of wood in existing or new construction. Bora-Care solution is recommended for protection of all interior and exterior wood (including wood-foam composite structural components). Treatment is intact provided the treated material is not exposed to rain, continuous water or in direct contact with the ground.

*Reticulitermes, Heterotermes, Coptotermes:* Subterranean Termites

*Kaloterms, Incisitermes:* Drywood Termites

*Zootermopsis, Neoterms:* Dampwood Termites

*Lyctinae:* True Powderpost Beetles

*Bostrichidae:* False Powderpost Beetles

*Ptinidae:* Anobiid Beetles

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

*Platypodidae, Scolytidae, Curculionidae:* Ambrosia/Bark Beetles

*Buprestidae:* Metallic Wood Boring Beetle

*Camponotus:* Carpenter Ants

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

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

Bora-Care solutions may be used on all cellulose materials, concrete, block, brick, metals, PVC plumbing pipes and other non-cellulosic materials not intended for food contact. Apply Bora-Care solutions only to bare surfaces where an intact water-repellent barrier, such as paint, stain or sealer is not present.

When spraying overhead interior areas of homes, apartment buildings, etc., cover or protect all surfaces below the areas being sprayed with plastic sheeting or other material and dispose if contamination from dripping occurs. Do not apply in food serving areas while food is exposed. Cover all food contact and preparation surfaces prior to treatment. After treatment, thoroughly clean all food contact surfaces with a 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.

## IV. Remedial Infested Wooden Treatment

**A. Accessible wood:** Spray and/or inject Bora-Care solution into beetle holes, termite and carpenter ant galleries and decay pockets. Apply 1 coat of Bora-Care solution to the point of surface saturation to all infested and susceptible wood, paying particular attention to infested areas. Apply 2 coats of Bora-Care solution to those wood members with only 1 or 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 Bora-Care solution into holes drilled into the wood at 8- to 10-inch intervals. For treating infested wall voids, refer to Sections IV.E. and F.

**B. Basements and crawl spaces:** Apply 1 coat of Bora-Care solution to all accessible surfaces including concrete walls, sill plates, piers, girders, subfloors, floor joists and any wood exposed to vertical access above ground. On wood where access is limited to 1 or 2 sides of wood members, such as sills and plates on foundation walls, apply 2 [two] coats of Bora-Care solution. Allow first application to dry by waiting at least 20 minutes between applications. One gallon of solution will treat up to 400 square feet of floor area (subfloor, floor joists, header and sill plates).

**C. Buildups on concrete slabs:** Apply Bora-Care 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 apply Bora-Care solution to capacity 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. Treat at least 6 inches of concrete slab out from the penetration site, if accessible.

**D. Wood flooring, paneling or other visible wood:** Treat by spray, brush or roller application. Prior to application, remove any existing finish by coarse sanding or stripping. Apply a 2:1 Bora-Care solution at a rate of approximately 1 gallon of solution per 500 square feet of floor surface. Allow floor to completely dry (typically 48 to 72 hours). Moisture content must be 16% or less before applying final finish. Bora-Care solution applications may raise the grain of the wood and an additional **light** sanding may be necessary before applying a new finish. The Bora-Care 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: Heartwood is not penetrated quickly:** 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. Wood that is wetted can swell so an expansion gap may be needed. Wood that is thoroughly wetted and redried may warp or twist.

**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 hole must be drilled between each wall stud when treating base plates. Use sufficient amount of solution to cover all areas to the point of surface saturation.

**Note:** Existing insulation may block distribution of the Bora-Care solution. Remove insulation prior to treatment.

**F. Foam application:** Add appropriate amount of foaming agent to produce a desired foam expansion.

**G. Foam insulation:** Apply by injecting a 1:1 Bora-Care solution into the infested area and/or by low pressure surface spraying.

**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.

**H. Non-cellulose (or non-wood) treatments:** Apply a supplemental treatment of Bora-Care solution to concrete, block or brick on the interior of crawl space and basement foundations to prevent shelter tubing by subterranean termites.

Apply a 1:1 Bora-Care solution at the rate of 1 gallon to up to 400 square feet of surface area. In crawl space, apply solution 2 feet (24 inches) up from the ground on interior wall surfaces. In unfinished basements with bare concrete slabs, apply the 1:1 Bora-Care solution 2 feet up from the concrete slab on interior foundation walls. In addition to the wall treatment, extend application up to 6 inches away from foundation walls onto the horizontal surface of the bare concrete slab. Treat both trap areas in concrete slab construction, after obtaining access to the area, by evenly applying 8 ounces of the 1:1 Bora-Care solution into the traps out at least 1 foot (12 inches) in all directions from the edge of the trap area. Treat other termite access areas (such as plumbing penetrations, expansion joints and abutting slabs) by applying the 1:1 Bora-Care solution into the penetration, out at least 1 foot in all directions from the edge of the penetration area. Also treat protruding utilities and adjacent wood to a height of 2 feet.

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

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

Apply when access to wooden structural components is optimized such as at the "dried-in" stage.

For treatment of new log structures see Section IX. Treat all structural wood with a 5:1 Bora-Care 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 or 2 sides of a wood member, including exterior wall base plates and any married studs, apply 2 coats of Bora-Care 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 including Formosan Termites (Crawl Space, Basement and Concrete Slab)**

**Note:** This treatment serves as a primary treatment for the control of subterranean termites including Formosan termites and must be applied with a 1:1 Bora-Care solution.

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 or 2 sides of a wood member, including exterior wall base plates and any married studs, apply 2 coats of Bora-Care solution to the exposed surfaces. Allow first application to dry by waiting at least 20 minutes between applications.

**A. Crawl Spaces and/or Basements:** Apply 1 coat of a 1:1 Bora-Care solution in a 2 foot high uninterrupted band to the point of surface saturation to all structural 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 crawl space or basement walls, apply a 1:1 Bora-Care solution to crawl space concrete or block walls in a 2 foot band up from the ground on interior wall surfaces. Apply at the rate of 1 gallon to up to 400 square feet of surface area. Treat a 2-foot 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, in finished basements where structural wood framing is immediately adjacent to the exterior foundation walls. Spray the concrete slab surface a minimum of 2 to a maximum of 8 inches.

**On structural wood where access is limited to 1 or 2 sides of wood members such as sill plates and headers on foundation walls, married studs or wrapped sheathing, apply 2 coats of Bora-Care 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-foot high band of a 1:1 Bora-Care 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.

**Structures on Concrete Slabs:** Apply 1 coat of a 1:1 Bora-Care solution to all wood, metal and/or non-cellulosic sill/base plates and the bottom 2 feet 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 gallon of solution to up to 400 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 foot high barrier of treatment between the bottom of the penetration site and the balance of the structure. **In areas where access is limited to 1 or 2 sides of a structural wood member, such as sills and plates on foundation walls, married studs or wrapped sheathing, apply 2 coats of Bora-Care 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 inches to a maximum of 8 inches out from plates. Treat the concrete slab where any visible cracks may be occurring, extending treatment 8 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 Bora-Care solution 2 feet high and extending application to cover at least 6 inches of concrete slab out from penetration site.

Evenly treat bath traps with a minimum of 8 ounces of the 1:1 Bora-Care solution to a maximum of 16 ounces per square foot of trap. Treat all concrete slabs at least 1 foot out from all bath trap penetrations.

Concrete, cinder block or non-cellulosic exterior walls must be treated with a 1:1 Bora-Care solution 2 feet on the

interior side of wall surface up from the concrete slab. This treatment must be applied as a continuous 2 foot barrier to all interior surfaces of all exterior walls. Treat at the rate of 1 gallon of a 1:1 Bora-Care solution to 400 square feet of surface area.

**B. Foam insulation:** Treat with low-pressure surface spraying or by injecting a 1:1 Bora-Care solution to the infested area at the rate of one 1 gallon up to 400 square feet.

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

## **VII. Preventative Treatment for Drywood Termites and Powderpost Beetles**

Apply 1 coat of a 5:1 Bora-Care solution to the point of surface saturation to all structural wood surfaces using a brush, spray or mist. Apply 2 coats of Bora-Care solution to those surfaces where access is limited to 1 or 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 coat of Bora-Care solution to the point of surface saturation to all wood surfaces. Apply 2 coats of Bora-Care solution to heavily infested areas and to those surfaces where access is limited to 1 or 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 best results, exterior wood surfaces that have been treated with Bora-Care solution will require a topcoating with a water-resistant finish such as paint or exterior stain. Apply the finish or topcoat within 6 weeks of treatment. It is important to allow Bora-Care -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 Bora-Care solution to the point of surface saturation to all interior and exterior wood surfaces. Apply 2 coats of Bora-Care solution to log ends, notches, corners and sill logs. Wait at least 1 hour before re-application.

Actual number of coats necessary to meet minimum requirements will depend upon wood size, surface porosity and number of sides accessible for treatment. Refer to application chart for the minimum amount of Bora-Care solution needed to

treat various sized logs or beams. Typically, 2 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 20 minutes 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, cover exterior treated surfaces.

**A. Finishing and Maintaining Treated Surfaces:** For long-term protection, exterior wood surfaces that have been treated with Bora-Care solution will require a topcoating with a water-resistant finish, paint or exterior stain. Apply the finish or topcoat within 6 weeks of treatment. It is important to allow Bora-Care-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 Bora-Care dip treating solution. 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 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 Bora-Care solution treatment to wood in contact with the ground or soil has a limited lifespan and will require periodic reapplication.

## **XII. Prevention and Remedial Control of Algae**

**On Cellulosic Building Components:** Apply Bora-Care 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 Bora-Care solution at the rate of 1 gallon of solution to up to 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 Bora-Care solution using a misting machine (or applicator) applying sufficient solution to cover surfaces at the rate of 1 gallon to up to 400 square feet. Refer to Tables A and B for mixing ratios for preventative and remedial algae treatments.

**On Exterior Stone Concrete Walkways and Concrete Walls:** Apply Bora-Care solution to exterior stone and concrete walkways and walls for the prevention and control of algal growth. Apply a 5:1 Bora-Care solution at the rate of 1 gallon of solution to up to 400 square feet of walkway or wall surface area. Do not spray abutting grass or plantings.

## **XIII. General Pest Control Applications**

The application of Bora-Care 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, harvester and pharaoh ants), silverfish, earwig, boxelder bug, millipede and cricket infestations that come in direct contact with these treated areas. Apply 1 gallon of Bora-Care solution to up to 400 square feet of surface area or refer to Tables A and B when applying as a surface application.

## XIV. Bora-Care Total Wood Preservative for Use Prior to Installation of Lumber

Bora-Care is 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. 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 Bora-Care 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 Bora-Care solution, remove any surface fungi with an appropriate wood cleaner followed by thorough surface rinsing.

**B. 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. Apply by spray, brush, roller, or dip.

**C. Retention Rates:** One gallon of Bora-Care concentrate (2 gallons of Bora-Care 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 Bora-Care solution needed on the volume of wood being treated, not just the surface area. Use the following formulas to calculate the required amount of Bora-Care solution:

### **Lumber (2x4, 2x6, 2x12, 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 gallon of Bora-Care concentrate (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 gallon of Bora-Care concentrate (2 gallons solution) treats 1,600 sq. ft.

## XV. Estimated Volume of Bora-Care Needed

Table C – Lumber

Lumber Size (Inches)	1 Gallon of Diluted Bora-Care Will Treat Up To
1 x 4	1,200 Lineal Feet
1 x 12	400
2 x 4	600
2 x 6	400
2 x 8	308
2 x 10	240
2 x 12	200
4 x 4	300
4 x 6	200
4 x 8	150
4 x 12	100
6 x 6	133
6 x 8	100
6 x 10	80
6 x 12	68

**Table D – Panels, Siding and Plywood**

(1:1 or 2:1 mixing ratio)

<b>Thickness (Inches)</b>	<b>1 Gallon of Diluted Bora-Care Will Treat Up To</b>
1/4	1,600 sq. ft.
3/8	1,067
1/2	800
3/4	533
1	400

**Table E – Round Logs**

(only the 1:1 mixing ratio)

<b>Diameter (Inches)</b>	<b>1 Gallon of Diluted Bora-Care Will Treat Up To</b>
6	167 Linear Feet
8	96
10	61
12	43

**Note:** The numbers listed above are based on an application rate of 1 gallon of Bora-Care solution to 400 board feet of wood.



## **XVI. Bora-Care Solution to Control Annosus Root Disease (*Heterobasidion annosum* (Fr.) Bref.) to Treat the Top of Freshly Cut Stumps**

Dilute Bora-Care to a 5% solution by thoroughly mixing 1 gallon of Bora-Care with 9 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).

### **STORAGE AND DISPOSAL**

*(for product packaged in rigid, nonrefillable containers less than or equal to 5 gallons)*

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.

### **STORAGE AND DISPOSAL**

*(for product packaged in rigid, nonrefillable containers greater than 5 gallons)*

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.

## Warranty Disclaimer

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

### Inherent Risks of Use

The directions for use 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 application, all of which are beyond the control of the Manufacturer. To the extent not prohibited by applicable law, the buyer/user assumes all such risks.

### Limitation of Remedies

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

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

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

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

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

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# Bora-Care® Safety Data Sheet

Issue Date: 01-Nov-2003

Revision Date: 21-Apr-2022

Version 3

## 1. IDENTIFICATION

### Product identifier

**Product Name** Bora- Care®

### Other means of identification

**SDS #** NIS-008

**Registration Number(s)** EPA Reg No 64405-1  
**UN/ID No** UN3082

### Recommended use of the chemical and restrictions on use

**Recommended Use** Termiticide, insecticide and fungicide concentrate.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

#### **Emergency telephone number**

**Company Phone Number** Phone: (800)-264-0870  
Fax: (865) 577-5825  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Emergency Overview** This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

**Appearance** Clear, viscous gel

**Physical state** Liquid

**Odor** Characteristic

### Classification

Acute toxicity - Oral	Category 4
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

### Signal Word

**Danger**

### Hazard statements

Harmful if swallowed  
May damage fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%
Ethylene glycol	107-21-1	40-60
Disodium octaborate tetrahydrate	12280-03-4	40

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

**4. FIRST AID MEASURES****Description of first aid measures**

<b>General Advice</b>	Immediate medical attention is required for large ingestions.
<b>Eye Contact</b>	Flush victim's eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation develops or persists.
<b>Skin Contact</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.
<b>Inhalation</b>	Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.
<b>Ingestion</b>	Do not induce vomiting unless directed to do so by a medical professional. Get immediate medical attention for large ingestions or if symptoms develop or if you feel unwell.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	May cause eye and skin irritation. Inhalation of mists may cause mild mucous membrane and respiratory irritation. Harmful if swallowed. Repeated ingestion may cause kidney damage.
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**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** A solid stream of water directed into hot, burning liquid would cause frothing and scattering of burning material.

**Specific Hazards Arising from the Chemical**

Burning may produce carbon monoxide, carbon dioxide and ethylene oxide.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool fire exposed containers with water.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8.

**Environmental precautions****Environmental precautions**

Avoid release to the environment. See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up**

Dike and collect liquid or absorb with an inert absorbent and place in appropriate containers for disposal. Prevent spill from entering sewers and watercourses. Report releases as required by local, state and federal authorities.

**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on Safe Handling**

Avoid contact with the eyes, skin and clothing. Avoid breathing mists or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Remove contaminated clothing immediately and wash before reuse. Remove PPE immediately after handling.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep containers closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible materials. Keep out of the reach of children. Protect from physical damage.

**Packaging Materials**

Non refillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

**Incompatible Materials**

Avoid strong oxidizing agents and aluminum.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene glycol 107-21-1	STEL: 50 ppm vapor fraction STEL: 10 mg/m <sup>3</sup> inhalable particulate matter, aerosol only TWA: 25 ppm vapor fraction	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m <sup>3</sup>	-
Disodium octaborate tetrahydrate 12280-03-4	STEL: 6 mg/m <sup>3</sup> inhalable particulate matter TWA: 2 mg/m <sup>3</sup> inhalable particulate matter	-	-

### Appropriate engineering controls

#### Engineering Controls

Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Suitable washing facilities should be available in the work area.

### Individual protection measures, such as personal protective equipment

#### Eye/Face Protection

Wear safety goggles or glasses where splashing is possible.

#### Skin and Body Protection

Wear impervious gloves such as butyl rubber, nitrile, neoprene, polyethylene, polyvinyl chloride or Viton. Follow instructions for Category C on an EPA resistance category selection chart for more options. Wear long sleeve shirts, long pants, socks and shoes when using this product.

#### Respiratory Protection

In operations where exposure levels are exceeded, a NIOSH approved respirator with methylamine or organic vapor cartridges with approved pesticide prefilter or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice. Refer to the product label for additional information.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Odor</b>	Characteristic
<b>Appearance</b>	Clear, viscous gel	<b>Odor Threshold</b>	Not established
<b>Color</b>	Clear		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
pH	6.9-7.1 (50% solution in water)		
Melting point / freezing point	Not determined		
Boiling point / boiling range	>100 °C / >212 °F		
Flash point	>104 °C / >220 °F	(Dipropylene glycol methyl ether acetate)	
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Liquid-Not applicable		
Flammability Limit in Air			
Upper flammability or explosive limits	Not determined		
Lower flammability or explosive limits	Not determined		
Vapor Pressure	Negligible		
Vapor Density	Not determined		
Relative Density	1.38		
Water Solubility	Soluble in water		

<b>Solubility in other solvents</b>	Not determined
<b>Partition Coefficient</b>	Not determined
<b>Autoignition temperature</b>	None
<b>Decomposition temperature</b>	Not determined
<b>Kinematic viscosity</b>	8000-11000 centipoise
<b>Dynamic Viscosity</b>	Not determined
<b>Explosive Properties</b>	Not determined
<b>Oxidizing Properties</b>	Not determined

**Other information**

**VOC Content** 36% by weight as water

## 10. STABILITY AND REACTIVITY

**Reactivity**

Not reactive under normal conditions.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to Avoid**

Incompatible Materials.

**Incompatible materials**

Avoid strong oxidizing agents and aluminum.

**Hazardous decomposition products**

When heated to decomposition, it emits carbon monoxide, carbon dioxide and ethylene oxide.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Do not inhale.

**Ingestion** Harmful if swallowed.

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene glycol 107-21-1	= 4700 mg/kg ( Rat )	= 10600 mg/kg ( Rat )	-
Disodium octaborate tetrahydrate 12280-03-4	= 2500 mg/kg ( Rat )	-	-
Polyethylene glycol 25322-68-3	= 22 g/kg ( Rat )	> 20 g/kg ( Rabbit )	-

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Carcinogenicity</b>	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Reproductive toxicity</b>	Sodium Borate: Sodium borate and boric acid interfere with sperm production, damage the testes and interfere with male fertility when given to animals by mouth at high doses. Boric acid produces developmental effects, including reduced body weight, malformations and death, in the offspring of pregnant animals given boric acid by mouth. The above mentioned animal studies were conducted under exposure conditions leading to doses many times in excess of those that could occur through product use or inhalation of dust in occupational settings. Moreover, a human study of occupational exposure to sodium borate and boric acid dusts showed no adverse effect on fertility.
<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

<b>Oral LD50</b>	896.60 mg/kg
<b>Dermal LD50</b>	19,760.70 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	3.16 mg/L

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

<b>Chemical name</b>	<b>Algae/aquatic plants</b>	<b>Fish</b>	<b>Crustacea</b>
Ethylene glycol 107-21-1	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50	14 - 18: 96 h Oncorhynchus mykiss mg/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 41000: 96 h Oncorhynchus mykiss mg/L LC50	46300: 48 h Daphnia magna mg/L EC50

**Persistence/Degradability**

Readily biodegradable.

**Bioaccumulation**

There is no data for this product.

**Mobility**

<b>Chemical name</b>	<b>Partition coefficient</b>
Ethylene glycol 107-21-1	-1.93

**Other Adverse Effects**

Not determined



### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

##### Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

##### Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

#### Note

This product is NOT REGULATED for transportation unless the package contains a reportable quantity. If a shipment of a reportable quantity (10,000 lbs/ 870 gal in a single package) is involved, the following DOT information applies:

#### DOT

UN/ID No UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)  
 Hazard class 9  
 Packing Group III  
 Reportable Quantity (RQ) 10,000 lbs/ 870 gal

#### IATA

Not regulated

#### IMDG

Not regulated

### 15. REGULATORY INFORMATION

#### International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Ethylene glycol	X	ACTIVE	X	X	X	X	X	X	X
Disodium octaborate tetrahydrate	X					X		X	
Polyethylene glycol	X	ACTIVE	X	X	X	X	X	X	X

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### CERCLA

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene glycol 107-21-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

<b>Chemical name</b>	<b>California Proposition 65</b>
Ethylene glycol - 107-21-1	Developmental

**U.S. State Right-to-Know Regulations**

<b>Chemical name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>
Ethylene glycol 107-21-1	X	X	X
Disodium octaborate tetrahydrate 12280-03-4	X		

**EPA Pesticide Registration Number** EPA Reg No 64405-1**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide Label**

Please refer to EPA label for additional information

**Difference between SDS and EPA pesticide label**

Please refer to EPA label for additional information

**16. OTHER INFORMATION****NFPA****Health Hazards****Flammability****Instability****Special Hazards****HMIS****Health Hazards****Flammability****Physical hazards****Personal Protection**

2

1

0

Not determined

2

1

0

Not determined

**Issue Date:** 01-Nov-2003  
**Revision Date:** 21-Apr-2022  
**Revision Note:** Regulatory review

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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100 Nisus Drive • Rockford, TN 37853  
[www.nisuscorp.com](http://www.nisuscorp.com) • 800-264-0870