

**Works as a dust,
liquid or foam.**



Tim-bor® Professional Provides Long-lasting Protection.

Tim-bor Professional, one of America's most popular pest control products, eliminates wood destroying organisms and offers long-lasting protection. Its active ingredient is a natural borate mineral salt that diffuses into the wood and will not break down over time like most organic compounds. Formulated with a concern for the environment, Tim-bor Professional has no known resistance and offers pest control professionals great flexibility in application.

- **Kills and controls:**
 - drywood termites
 - decay fungi
 - wood boring beetles
 - carpenter ants
- **Highly effective.**
- **Economical.**
- **Virtually odorless.**
- **Water soluble.**
- **Use as a dust, liquid or foam.**
- **For interior and exterior use.**
- **Can be used in conjunction with fumigation for residual protection.**

Tim-bor® Professional INSECTICIDE AND FUNGICIDE

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

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

****Also for Wood Foam Composite Structural Components**

Active Ingredient:

Disodium Octaborate Tetrahydrate (Na₂B₈O₁₃ • 4H₂O) 98%

EPA Reg. No. 64405-8 EPA Est. 64405-TN-1

Other Ingredients+ 2%

Total 100%

+Contains 2% H₂O – Absorbed Moisture

**Keep Out of Reach of Children
CAUTION**

PRECAUTIONARY STATEMENTS

Hazards To Humans & Domestic Animals

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

FIRST AID

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

Personal Protective Equipment*

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

Environmental Hazards

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

NOTICE

Read and understand the entire label before using.

Use only according to label directions.

Before buying or using this product, read **Warranty Disclaimer and Limitation of Remedies** statement found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Disclaimer and Limitation of Remedies**.

DIRECTIONS FOR USE

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

Storage and Disposal

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

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

General Information

TIM-BOR Professional is a water soluble, inorganic borate salt with insecticidal and fungicidal properties effective against wood-destroying organisms including the target pests listed below. Apply **TIM-BOR Professional** as a liquid solution, powder or foam. **TIM-BOR Professional** is an effective treatment for wood (and wood-foam composite structural components) to kill and prevent infestations of decay fungi including white rot, brown rot (i.e., *Poria*) and wet rots. This product may be used for preventative treatment (before signs of infestation), for wood in existing structures and for remedial treatment of infested wood in existing structures. **TIM-BOR Professional** is also effective for the prevention and control of wood destroying insects such as, but not limited to, the following organisms: **Subterranean Termites** (*Reticulitermes*, *Heterotermes*, *Coptotermes* (Formosan)), **Drywood Termites** (*Kaloterms*, *Incisitermes*), **Dampwood Termites** (*Zootermopsis*), **Powderpost Beetles** (*Lyctidae*), **"False" Powderpost Beetles** (*Bostrichidae*), **Deathwatch and Furniture Beetles** (*Anobiidae*), **Old House Borers, Longhorn Beetles** (*Cerambycidae*), **Carpenter Ant** (*Camponotus*), **Bark and Timber Beetles** (*Scolytidae*).

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

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

Preparation of Treatment Solutions

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

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

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

Wash and rinse all equipment after each use.

General Application Instructions

TIM-BOR Professional as a liquid solution: **TIM-BOR Professional** liquid applications may be made to wood structures including decks, fences, steps, sheds, barns and other

outbuildings. Such structures must be protected from excess rain. On wood with drier than normal moisture content, apply by brush or spray two applications of a 10% solution to wood surfaces. On wood with normal moisture content, apply by brush

or spray one application of a 15% solution to wood surfaces. Application may also be made by drilling and then injecting the solution under pressure into sound wood or into the insect galleries of infested wood. **TIM-BOR Professional** may be applied as a foam to wood surfaces or injected into wall voids or insect galleries.

Remedial and Preventative Treatment

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

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

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

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. **MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

Inherent Risks of Use

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, the manner of application or other factors, all of which are beyond the control of the seller. All such risks shall be assumed by the buyer.

Limitation of Remedies

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.

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. **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.

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Issue Date: 1/04
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Material Safety Data Sheet

Tim-bor Professional INSECTICIDE, AND FUNGICIDE Health Emergencies: CHEMTREC® (800) 424-9300

SECTION I – COMPANY AND PRODUCT IDENTIFICATION

Manufacturer: Nisus Corporation
100 Nisus Drive
Rockford, TN 37853
(800) 264-0870 Fax: (865) 577-5825

Product name: Tim-bor® Professional
Product use: Insecticide and fungicide
Chemical formula: $\text{Na}_2\text{B}_4\text{O}_{13} \cdot 4\text{H}_2\text{O}$
Chemical name/synonyms: Disodium octaborate tetrahydrate
Chemical family: Inorganic borates
CAS registry number: 12280-03-4
EPA registration number: 64405-8
(Refer to Section IS for TSCA/DSL Chemical inventory listing)

SECTION II – HAZARD IDENTIFICATION AND PERSONAL PROTECTIVE EQUIPMENT INFORMATION

EMERGENCY OVERVIEW: **TIM-BOR Professional** is a white, odorless, powdered substance that is not flammable, combustible, or explosive and has low acute oral and dermal toxicity.

POTENTIAL ECOLOGICAL EFFECTS: Large amounts of **TIM-BOR Professional** can be harmful to plants and other species. Therefore, releases to the environment should be minimized.

POTENTIAL HEALTH EFFECTS: Routes of exposure: Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern because **TIM-BOR Professional** is poorly absorbed through intact skin.

INHALATION: Occasional mild irritation effects to nose and throat may occur from inhalation of **TIM-BOR Professional** dust at levels greater than 10 mg/m³.

EYE CONTACT: **TIM-BOR Professional** is non-irritating to eyes in normal use.

SKIN CONTACT: **TIM-BOR Professional** does not cause irritation to intact skin. **INGESTION:** Products containing **TIM-BOR Professional** are not intended for ingestion. **TIM-BOR Professional** has a low acute toxicity. Small amounts (e.g., a teaspoonful) swallowed accidentally are not likely to cause effects; swallowing amounts larger than that may cause gastrointestinal symptoms.

CANCER: **TIM-BOR Professional** is not a known carcinogen.

SIGNS AND SYMPTOMS OF EXPOSURE: Symptoms of accidental over-exposure to **TIM-BOR Professional** might include nausea, vomiting, and diarrhea, with delayed effects of skin redness and peeling.

PERSONAL PROTECTION: Eye protection, protective clothing, and waterproof gloves may be necessary under certain high exposure conditions. Otherwise, refer to label for actual regulatory personal protection requirements.

OCCUPATIONAL EXPOSURE LIMITS: Disodium octaborate tetrahydrate (**TIM-BOR Professional**) is considered to be a nuisance dust by OSHA, Cal OSHA, and ACGIH. The OSHA/PEL is 15mg/m³ total dust and 5mg/m³ respirable dust. The Cal OSHA/PEL and ACGIH/TLV are 10 mg/m³. Use local exhaust or engineering controls to prevent exceeding exposure limits if possible.

SECTION III – FIRST AID MEASURES

Inhalation: If symptoms such as nose or throat irritation are observed, remove person to fresh air.

Eye Contact: Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

Skin Contact: No treatment necessary because non-irritating. **Ingestion:** Swallowing small quantities (one teaspoon) will cause no harm to healthy adults. If larger amounts are swallowed, give two glasses of water to drink and seek medical attention.

SECTION VIII – ECOLOGICAL INFORMATION

Ecotoxicity Data

General: Boron (B) is the element in disodium octaborate tetrahydrate (**TIM-BOR Professional**) which is used by convention to report borate product ecological effects. To convert disodium octaborate tetrahydrate into the equivalent boron (B) content, multiply by 0.2096.

Phytotoxicity: Boron is an essential micronutrient for healthy growth of plants; however, it can be harmful to boron sensitive plants (e.g. grass and ornamentals) in high quantities.

Algal Toxicity: Green algae, *Scenedesmus subspicatus*

96-hr EC₁₀ = 24 mg B/L

Invertebrate Toxicity: Daphnids, *Daphnia magna straus*

24-hr EC₅₀ = 242 mg B/L

Test substance: sodium tetraborate

Fish Toxicity:

Seawater:

Dab, *Limanda limanda*

96-hr LC₅₀ = 74 MG B/LL

Freshwater:

Rainbow trout, *S. gairdneri* (embryo-larval stage)

24-day LC₅₀ = 88 mg B/L

32-day LC₅₀ = 54 mg B/L

Goldfish, *Carassius auratus* (embryo-larval stage)

7-day LC₅₀ = 65 mg B/L

3-day LC₅₀ = 71 mg B/L

SECTION IX – DISPOSAL CONSIDERATIONS

Disposal Guidance: Consult state and local authorities for disposal guidelines.

RCRA (40 CFR 261): **TIM-BOR Professional** is not listed under any sections of the Federal Resource Conservation and Recovery Act (RCRA).

SECTION X – REGULATORY INFORMATION

OSHA/Cal OSHA: This MSDS document meets the requirements of both OSHA (29 CFR 1910.1200) and Cal OSHA (Title 8 CCR 5194 (g)) hazard communication standards. Refer to Section 8 for regulatory exposure limits.

FIFRA: **TIM-BOR Professional** is registered with the EPA (EPA Reg. No. 64405-8), in accordance with Section 3 of FIFRA, as a pesticide product. U.S. EPA TSCA Inventory 12008-41

SECTION IV – ACCIDENTAL RELEASE MEASURES

General: **TIM-BOR Professional** is a water-soluble white powder that may, at high concentrations, cause damage to trees or vegetation by root absorption.

Land spill: Vacuum, shovel or sweep up **TIM-BOR Professional** and place in container for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during cleanup and disposal.

Spillage into water: Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its normal environmental background level.

TIM-BOR Professional is a non-hazardous waste when spilled or disposed of; as defined in the Resource Conservation and Recovery Act (RCRA) regulations (40 CFR 261).

SECTION V – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, odorless, powder
Bulk density: 320 to 480 kg/m³
Vapor pressure: Negligible @ 20°C
Solubility in water: 9.7% @ 20°C; 34.3% @ 50°C
Melting point: 815°C
pH @ 20°C: 8.3 (3.0% solution)
7.6 (10.0% solution)

SECTION VI – FIRE FIGHTING MEASURES AND HANDLING INSTRUCTIONS

Fire Fighting Measures

General Hazard: None, because **TIM-BOR Professional** is not flammable, combustible or explosive. The product is itself a flame retardant. **Extinguishing Media:** Any extinguishing media may be used on nearby fires.

Flammability Classification (29CFR1910.1200): Non-flammable solid.

General: **TIM-BOR Professional** is a stable product.

Hazardous decomposition: None.

Handling Instructions

General: No special handling precautions are required, but dry indoor storage is recommended. Good housekeeping procedures should be followed to minimize dust generation and accumulation.

Storage Conditions: Ambient air temperatures and a low moisture environment.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Reaction with strong reducing agents, such as metal hydrides or alkali metals, will generate hydrogen gas, which could create explosive hazard.

SECTION VII – TOXICOLOGICAL INFORMATION

Acute Toxicity

INGESTION: Low acute oral toxicity; LD₅₀ in rats is 2,550 mg/kg of body weight.

SKIN/DERMAL: Low, acute dermal toxicity; LD₅₀ in rabbits is greater than 2,000 mg/kg of body weight. **TIM-BOR Professional** is poorly absorbed through intact skin.

INHALATION: Low acute inhalation toxicity; LD₅₀ in rats is greater than 2.0 mg/L (or g/m³).

SKIN IRRITATION: Non-irritant.

EYE IRRITATION: Draize test in rabbits produced mild eye irritation effects. Years of occupational exposure to **TIM-BOR Professional** indicates no adverse effects on human eye. Therefore **TIM-BOR Professional** is not considered to be a human eye irritant in normal industrial use.

SENSITIZATION: **TIM-BOR Professional** is not a skin sensitizer.

RCRA: Disodium octaborate tetrahydrate is not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act (RCRA) or regulations (40 CFR 261 et seq).

California Proposition 65: Disodium octaborate tetrahydrate (Tim-bor) is not listed on the Proposition 65 list of carcinogens or reproductive toxicants.

Superfund: CERCLA/SARA. Disodium octaborate tetrahydrate is not listed.

Safe Drinking Water Act (SDWA): Disodium octaborate tetrahydrate is not regulated under the SDWA, 42 USC 300g-l, 40 CFR 141 et seq. Consult state and local regulations for possible water quality advisories regarding boron compounds.

Clean Water Act (CWA) (Federal Water Pollution Control Act):

33 USC 1251 et seq.

- Disodium octaborate tetrahydrate (**TIM-BOR Professional**) is not itself a discharge covered by any water quality criteria of Section 304 of the CWA, 33 USC 1314.
- It is not on the Section 307 List of Priority Pollutants, 33 USC 1317, 40 CFR 129.
- It is not on the Section 311 List of Hazardous Substances, 33 USC 1321, 40 CFR 116.

Transportation Information: DOT hazardous classification. Disodium Octaborate Tetrahydrate (**TIM-BOR Professional**) is not regulated by the U.S. Department of Transportation.

For further information contact:

Nisus Corporation, Technical and Sales Support: 1-800-264-0870



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

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