

Tim-bor® Professional

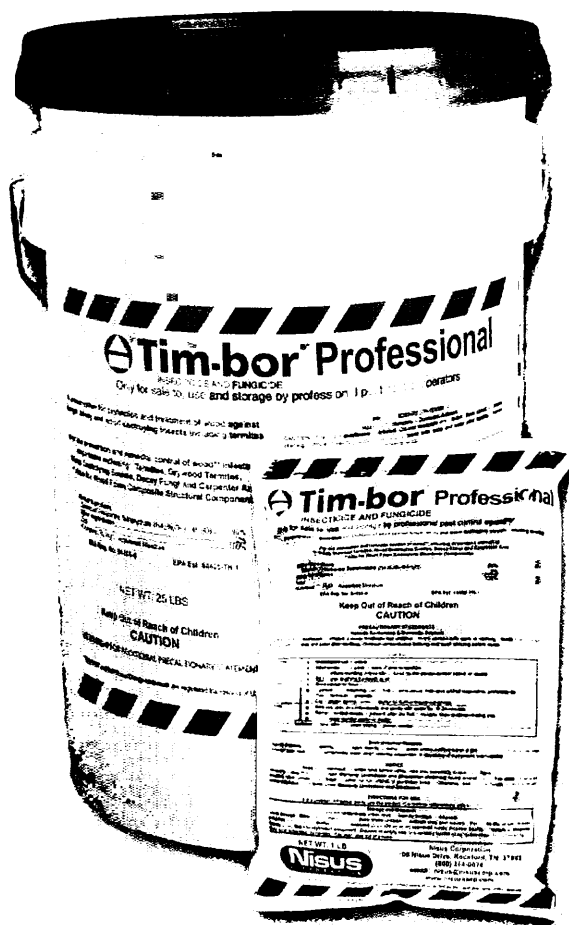
INSECTICIDE AND FUNGICIDE

TIM-BOR Professional Eliminates Wood Destroying Organisms.

- Drywood Termites • Decay Fungi • Wood Boring Beetles • Carpenter Ants

TIM-BOR Professional Provides Long-Lasting Protection.

Tim-bor Professional diffuses into wood and acts as a wood preservative, fungicide and insecticide. It will not break down over time like most organic compounds, and therefore offers longer-lasting protection.



- Highly effective
- Water soluble
- Economical
- For interior and exterior use
- Use as a dust, liquid or foam
- Can be used in conjunction with fumigation for residual protection
- Formulated with a concern for the environment

TIM-BOR Professional Has No Known Resistance.

- One of America's most popular pest control products.
- *Active ingredient:* Disodium Octaborate Tetrahydrate.



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

Tim-bor®* **Professional**®*

INSECTICIDE AND FUNGICIDE

Only for sale to, use and storage by professional pest control operators

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

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

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

Active Ingredient:

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

Other Ingredients+ 2%

Total 100%

+Contains 2% H_2O – Absorbed Moisture

EPA Reg. No. 64405-8

EPA Est. 64405-TN-1

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 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>	

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 Limitations and Disclaimer** 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 Limitations and Disclaimer**.

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** (*Lycitidae*), **"False" Powderpost Beetles** (*Bostrichidae*), **Deathwatch and Furniture Beetles** (*Anobiidae*), **Old House Borers**, **Longhorn Beetles** (*Cerambycidae*), **Carpenter Ants** (*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.

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 Limitations and Disclaimer

Because of varying conditions affecting the use and application, manufacturer warns buyer that these may impair or vary the results or effects of the use of this product. In any event, complete prevention of decay or insect infestation is not guaranteed. Neither the manufacturer nor seller shall be liable in respect to any injury or damage suffered by reason of the use of this product for a purpose not indicated by the label or when used contrary to the directions or instructions hereon or with respect to breach of any warranty not expressly specified herein. Buyer accepts this material subject to these terms and assumes all risk of usage and handling except when used or handled in accordance with this label.



Nisus Corporation

100 Nisus Drive, Rockford, TN 37853

(800) 264-0870

www.nisuscorp.com

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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

Product name: Tim-bor® Professional • **Product use:** Insecticide and fungicide • **Chemical formula:** Na₂B₄O₇ • 4H₂O • **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) • **Manufacturer:** Nisus® Corporation, 100 Nisus Drive, Rockford, TN 37853, (800) 264-0870, Fax: (865) 577-5825

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 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.

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/L/L; 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 • **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-I, 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



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