

15-FEB-2007

# Tim-Bor Professional

**Wood Preservative/Insect Control**

**For protection and preventative treatment of wood\* against decay fungi and wood destroying insects, and for remedial control of such pests in infested wood.**

(\*Also for wood-foam composite structural components.)

**COMMERCIAL  
EYE IRRITANT**

**GUARANTEE:**

Disodium Octaborate Tetrahydrate. . . . . 98%

(Na<sub>2</sub>B<sub>8</sub>O<sub>13</sub>·4H<sub>2</sub>O)

REGISTRATION NO. 24091 PEST CONTROL PRODUCTS ACT

**READ THE LABEL BEFORE USING**

Net contents: 0.5 kg - 25 kg (1.1 lb - 55.1 lbs)

Manufactured by:

**U.S. Borax Inc.**

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London ON N6G 2B0

24 Hour Emergency Number

(1) 866-334-3571

## **DIRECTIONS FOR USE:**

### **General information**

*Tim-Bor Professional* is a water soluble inorganic borate salt with insecticidal, termiticidal, and fungicidal properties. This product can be used for preventative treatment of wood in existing structures (before signs of infestation) and for remedial treatment of wood infested with termites, carpenter ants and wood-boring beetle larvae, as specified below.

### **Control of wood destroying organisms**

*Tim-Bor Professional* is recommended for wood and cellulose materials, 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 soil. Types of wood include, but are not limited to, all types of lumber, logs, and plywood. This product is toxic to wood-destroying insects, but surface etching of treated wood by target organisms may occur. Application of *Tim-Bor Professional* to control wood-destroying organisms must be part of an Integrated Pest Management (IPM) strategy.

### **Target organisms**

*Tim-Bor Professional* is effective for treatment of wood (and wood-foam composite structural components) against decay fungi, including brown (i.e. *Poria*), white rots and the following wood boring termites, beetles, and carpenter ants:

- **Subterranean Termites**, e.g. *Reticulitermes* (Termitidae)
- **Drywood Termites**, e.g. *Incisitermes* (Kalotermitidae)
- **Dampwood Termites**, e.g. *Zootermopsis* (Hodotermitidae)
- **Furniture and Deathwatch Beetles** (Anobiidae)
- **Powder Post Beetles** (Lyctidae)
- **Old House Borers, Longhorn Beetles** (Cerambycidae)
- **Carpenter Ants** (*Camponotus*)

### **Mixing instructions**

• **10% aqueous solution (approximate):** To prepare solution, water should be added to the tank to about 80% of the final volume of solution required. While agitating, add 120g. (0.12kg.) of *Tim-Bor Professional* gradually for each litre of treating solution required. The remaining water is then added and the solution is agitated until the product has dissolved.

• **15% aqueous solution (approximate):** Prepare solution as above, but gradually add 180g. (0.18kg.) of *Tim-Bor Professional* for each litre of treating solution that is required. Note: *this concentrated solution should be used immediately and should not be stored.* Equipment should be rinsed and cleaned after use.

• **15% foam (approximate):** Prepare 15% aqueous solution as listed above and add surfactant/foaming agent. Typically 30-60 ml. of foaming agent added to one litre of the 15% aqueous solution will produce a dry foam with the desired expansion ratios of approximately 20 to 1 (approx. 20 litres of foam per litre of aqueous solution). *Tim-Bor Professional* foam should be of a consistency that adheres to wood surfaces, so that run off is minimized. Since each foam machine can produce different foams, refer to the equipment manufacturer manuals and the surfactant's label for specific instructions.

## Application

*Tim-Bor Professional* may be used as a solution, powder or foam. No product should be visible in living areas after application.

- **Solutions:** For remedial control of organisms attacking wood, or for protection of wood against future infestations, 2 applications of the 10% aqueous solution are normally required. Alternatively, apply 1 application of the 15% aqueous solution. Apply solutions of *Tim-Bor Professional* by brush or spray until wood surface is thoroughly wet, at a rate of approximately 1 litre per 5 square metres of wood surface area (or 20 litres per 100 square metres). Spray evenly using medium or coarse spray at low pressures (1-2 kg/cm<sup>2</sup>). Best results and penetration will be obtained when ambient temperatures are over 13°C. Do not spray frozen wood, painted or waterproofed surfaces. After treatment, exterior wood surfaces should be sealed to prevent *Tim-Bor Professional* from diffusing out. Wood should be completely dry before a sealing coat (paint, varnish or waterproofing seal) can be applied. Application may also be made by drilling and then injecting the solution under pressure into sound wood or until runoff is observed from entry/exit holes of infested wood. Injection holes (approximately 3 mm diameter) should be drilled in the area of suspected infestation, preferably in a diamond pattern with the long axis (30-40 cm) along the grain and the short axis (10-15 cm) across. Drill holes approximately 3/4 of the thickness of the beam. The solution is injected under pressure (4-5 kg/cm<sup>2</sup>) for 15-60 seconds in each hole.

- **Powder:** Alternatively, apply *Tim-Bor Professional* powder to wood members by drill and injection into galleries or dust generously on wood surfaces. *Tim-Bor Professional* powder can also be injected into wall voids such as between studs, block voids, box sill, eaves, attics, soffits, etc. Apply powder at a rate of approximately 130-150g per square metre.

- **Foam:** Apply foam so that all accessible wood surfaces are covered with foam. Where possible, place foam between wood joints or abutting wood surfaces. In wall voids, inject enough foam to contact wood surfaces of studs in the wall, or the target area desired. Foam can be injected into galleries until runoff is observed from kick holes, or entry/exit holes.

### Preventative treatment:

Application of *Tim-Bor Professional* solution, foam or powder will prevent infestation of wood termites, carpenter ants and the wood-boring beetles named above. Carpenter ants do not excavate treated surfaces, but may penetrate wood through untreated surfaces; this may be prevented by dusting wall voids, electrical and plumbing lines, cracks and crevices with *Tim-Bor Professional* powder. Eggs of wood-boring beetles laid on treated surfaces show reduced hatch rates; those larvae that do emerge die as they bore into the treated wood.

### Remedial treatment:

*Tim-Bor Professional* from solutions and foams will penetrate dry wood down to 12mm below treated surfaces. Carpenter ants may be controlled by application of powder to wall voids, electrical and plumbing lines, cracks and crevices. Established infestations of termites and carpenter ants at greater depths may be controlled by drilling and injection of *Tim-Bor Professional*. Beetle larvae at greater depths may not be immediately controlled by surface treatment, nor even by drilling and injection, but will eventually be killed by ingesting *Tim-Bor Professional* treated wood as they come to the surface

to pupate.

**General insect control:**

*Tim-Bor Professional* powder may also be used as a crack and crevice and void treatment for control of cockroaches, silverfish and ants. *Tim-Bor Professional* may not be used for flea control. *Tim-Bor Professional* 15% aqueous solution may be used as a crack and crevice treatment only. Apply *Tim-Bor Professional* powder into wall voids and hiding places such as in cracks and crevices, moist areas, openings around pipes and sinks, under refrigerators, behind baseboards, coffee makers, meter boxes and manholes. Any powder visible after application must be brushed into cracks and crevices or removed. Apply only in areas inaccessible to children and pets. Avoid contamination of feed and foodstuffs. In food areas of food handling establishments, application of *Tim-Bor Professional* powder or 15% aqueous solution is limited to crack and crevice treatment only. Apply *Tim-Bor Professional* powder or 15% aqueous solution between different elements of construction, between equipment and floors, openings leading to voids and hollow spaces in walls, equipment legs and bases where insects hide. Care should be taken to avoid depositing the product onto exposed surfaces or introducing the material into the air. Avoid contamination of food or food processing surfaces. Do not use in serving areas when food is exposed.

APPLICATIONS OF THIS PRODUCT IN THE FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS, OTHER THAN AS A CRACK AND CREVICE TREATMENT ARE NOT PERMITTED.

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN. May be harmful if swallowed. Avoid breathing the dust and contact with skin, eyes and clothing. Wear long-sleeved shirt, long pants, hat, eye goggles and chemical-resistant gloves during all activities with this product. Wear a dust/mist mask respirator when mixing and while spraying in enclosed spaces. Wash thoroughly after handling and before eating, drinking or smoking. Do not reuse empty container. Do not contaminate water, food or feed.

**ENVIRONMENTAL HAZARDS:** *Tim-Bor Professional* is toxic to certain aquatic life forms. Do not apply *Tim-Bor Professional* to any body of water. Do not contaminate water or wetland areas with application equipment rinsates or wash waters.

**FIRST AID INSTRUCTIONS:** If swallowed, drink a glass of water. Call physician or contact Poison Control Centre IMMEDIATELY. Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention. If contact with eyes or skin occurs, rinse thoroughly with water. Consult a physician if irritation develops.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

**TOXICOLOGICAL INFORMATION:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**STORAGE:** Dry indoor storage is recommended. To minimize caking of the product, buckets should be handled on a first in, first out basis. Good housekeeping procedures should be followed to minimize dust generation and accumulation.

**DISPOSAL:**

1. Thoroughly empty the contents of the container into the application device.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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