

2018-10-17

2018-1464

EndRot Borate Powder™

Soluble Powder

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**

ACTIVE INGREDIENT:

Disodium Octaborate Tetrahydrate. 98%
(Na₂B₈O₁₃·4H₂O)

REGISTRATION NO. 33244 PEST CONTROL PRODUCTS ACT

READ THE LABEL BEFORE USING

NET CONTENTS: 150 g - 25 kg

System Three Resins, Inc.
3500 West Valley Highway North, Suite 105
Auburn, WA 98001 USA
1-800-333-5514

Emergency Number 24 hr.: CHEMTREC 800-424-9300

DIRECTIONS FOR USE:

USE PRECAUTIONS: Apply/use only in areas inaccessible to children and pets. Do not apply as a broadcast application.

Treated wood must be sealed or used in locations where post-application exposure will not occur.

General information

EndRot Borate Powder 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

EndRot Borate Powder is recommended for wood and cellulose materials, in accordance with the specific treatment methods described herein. *EndRot Borate Powder* 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 *EndRot Borate Powder* to control wood-destroying organisms must be part of an Integrated Pest Management (IPM) strategy.

Target organisms

EndRot Borate Powder 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 *EndRot Borate Powder* gradually for each litre of treating solution required.

The remaining water is then added and the solution is agitated until the product has dissolved.

Application

EndRot Borate Powder may be used as a solution or powder. 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. Apply solutions of *EndRot Borate Powder* by 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/cm²). 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 *EndRot Borate Powder* 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/cm²) for 15-60 seconds in each hole.

• **Powder:** Alternatively, apply *EndRot Borate Powder* powder to wood members by drill and injection into galleries or dust generously on wood surfaces. *EndRot Borate Powder* 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.

Preventative treatment:

Application of *EndRot Borate Powder* 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 *EndRot Borate Powder* 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:

EndRot Borate Powder from solutions 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 *EndRot Borate Powder*. 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 *EndRot Borate Powder* treated wood as they come to the surface to pupate.

General insect control:

EndRot Borate Powder powder may also be used as a crack and crevice and void treatment for control of cockroaches, silverfish and ants. *EndRot Borate Powder* may not be used for flea control. Apply *EndRot Borate Powder* 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 removed or wiped away after application to voids. Apply only in areas inaccessible to children and pets. Avoid contamination of feed and foodstuffs. In food areas of food handling establishments, application of *EndRot Borate Powder* powder is limited to crack and crevice treatment only. Apply *EndRot Borate Powder* powder 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 pants, long-sleeved shirt, chemical resistant coveralls, chemical resistant gloves and a NIOSH approved N95 (minimum) filtering face piece respirator (dust mask) that is properly fit tested when mixing/loading/ applying boron as a dust/powder. When applying boron as a solution, wear long pants, long-sleeved shirt, chemical-resistant coveralls and chemical-resistant gloves.

Visible dust/powder must be removed or wiped away after application to voids.

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: *EndRot Borate Powder* is toxic to certain aquatic life forms. Do not apply *EndRot Borate Powder* to any body of water. Do not contaminate water or wetland areas with application equipment rinsates or wash waters.

FIRST AID: If swallowed, call a poison control centre or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If in eyes, 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 centre or doctor for treatment advice. If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. If inhaled: 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 centre or doctor for further treatment advice. Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention.

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.

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

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.