



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 8, 2018

Borates Plus, Inc.
c/o KRK Consulting LLC
ATTN: Kevin Kutcel, Agent
5807 Churchill Way
Medina, OH 44256

Subject: Label Amendment – Adding cross tie, end cut treatment and dip-diffusion information to the label that was previously referring to the AWWA Book of standards for that information
Product Name: Disodium Octaborate Tetrahydrate
EPA Registration Number: 87445-1
Application Date: 10-30-2017
Decision Number: 535754

Dear Mr. Kutcel:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Autumn Metzger by phone at 703-305-5314, or Metzger.autumn@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Elizabeth Fertich". The signature is written in a cursive style with a large initial "E".

Elizabeth Fertich
Product Manager 4
Invertebrate & Vertebrate Branch 1
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Avoid contamination of food and feed. Do not have container where children or animals may gain access. Personal protective clothing, normal work clothes (i.e. long pants, shoes plus socks, a long-sleeved shirt) plus waterproof gloves for all handlers and a NIOSH/MSHA certified respirator during mixing and loading.

| | |
|--|--|
| FIRST AID | |
| If swallowed | <ul style="list-style-type: none"> • 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 so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person. |
| 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 treatment advice. |
| If on skin or clothing | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice. |
| HOT LINE NUMBER | |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency, call the National Pesticide Information Center at 800-858-7378. | |

ENVIRONMENTAL HAZARDS
 This pesticide is toxic to fish. Do not discharge effluent containing this product into lake, 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.



Disodium Octaborate Tetrahydrate

A preservative for Protection and Treatment of Wood and Wood-Foam Composite Structural Components Against Decay Fungi and Wood-Destroying Insects.

ACTIVE INGREDIENTS:
 Disodium Octaborate Tetrahydrate.....99.98%
 Other Ingredients.....0.02%
TOTAL.....100.00%

This Product is for sale only to Professional Wood Treaters.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Side Panels for Additional Precautionary Statements and First Aid

MANUFACTURED FOR:
Borates Plus, Inc.
1101 S. Orange Blossom Trail
Apopka, FL 32703

EPA Reg. No. 87445-1
EPA Est. No. xxxxx-xx-xxx

Net Weight 50, 2000 lbs

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
 Disodium Octaborate Tetrahydrate (DOT) is a water soluble inorganic borate salt for the protection and treatment of lumber and wood-foam composite structural components against decay fungi and wood boring beetles including Powder Post Beetles (Lyctidae), Furniture Beetles and Old House Borers (Anodidae), Longhorn Beetles (Cerambycidae). This treatment is not effective against wood staining fungi and may require mixing with compatible products. Wood pressure treated with DOT resists attack of Subterranean Termites (Reticulitermes, Coptotermes, Heterotermes), Dampwood Termites (Zootermopsis), Drywood Termites (Kaloterms, Incisitermes), and Carpenter Ants (Camponotus) in treated wood.
 Pressure treatment with only Disodium Octaborate Tetrahydrate is recommended for all interior wood and wood-foam composite structural components, which will be protected from rain and not in direct contact with soil. Wood and wood-foam composite structural components that are pressure treated with DOT can be used in exterior applications, unprotected from liquid water, including rain and not in direct contact with soil, when treated with a waterproof sealant following treatment with DOT. When end cuts are performed following the waterproofing treatment, it is recommended that the ends be resealed. This includes, but is not limited to, the manufacturer's proprietary polymer binder.

Cross Tie Applications

Hardwood lumber (e.g. Crossties Railroad, and Switchties under AWPB Book of Standards, 2010, (Use Category U1-10, Section 3, Commodity Specifications for Treated Wood End uses.) can be treated using Disodium Octaborate Tetrahydrate (DOT). The DOT treated wood must also be post treated with an oil borne preservative or waterproof sealant for encapsulation purposes. The finished wood product can be rated as a 4C Category Use per the AWPB Book of Standards.

Hardwood species will require a minimum 20% DOT solutions. AWPB Book of Standards, Section T1-10, Sec. A lists the regulated operating conditions for a Pressure Treatment cycle. One gallon of 20% DOT solution is made by diluting 1.88 lbs of DOT with 7.45 lbs of hot water with good agitation and heat. The DOT solution must be kept agitated and heated to avoid crystallization.

Hardwood ties can be treated with a 20% DOT solution to give a loading of 0.27 lbs/cu.ft. of DOT (1 lb of DOT/ 7'x9'x8.5' tie) by treating with approximately 0.6 gal DOT solution per tie.

End cut treatment

Since some Western species are not always completely penetrated when treated, they should be remedially treated at the jobsite by spray, brush or dip the end-cuts. Be sure to collect the run-off by using a plastic drop cloth. Spray or brush generously until the wood will accept no more solution. Or dip each end-cut for about 5 minutes.

DIP-DIFFUSION TREATMENT

Preparation of Solution

To prepare a Dip-Diffusion treatment solution, add water, (about 75% of the volume of solution required) to a mixing tank. At the required temperature, add the DOT under continuous agitation. Then the additional water can be added to the solution. The solution is then agitated for an additional 10-15 minutes so that all of the DOT has dissolved. Maintain the temperature of the solution to prevent crystallization upon cooling. In very cold weather, heating and insulation should be used to maintain temperatures. When the tank is not being used, it should be kept covered.

Approximate Conditions and Solution Strengths for the Dip-Diffusion Method

| Pounds of DOT Per Gallon of Water | DOT Solution Conc. | Minimum Solution Temp. |
|-----------------------------------|--------------------|------------------------|
| 1.5 | 15% | 105°F (40°C) |
| 2.0 | 20% | 120°F (50°C) |
| 2.8 | 25% | 130°F (55°C) |

Various species of wood will require different solution concentrations and the more difficult species may require another dipping cycle. Lumber treated in this process needs to conform to AWWPA standards U1-10 and T1-10.

Method of Application

Dip freshly cut lumber (moisture content >30%) into the dip-diffusion tank containing the hot aqueous solution of DOT for 5-15 minutes. The treated wood should be stacked and kept covered in order to slow the drying process and prevent leaching of the DOT by rainfall. The DOT will begin to diffuse throughout the wood immediately. Storage conditions will influence the rate of the diffusion process. The species and thickness of wood will also dictate the rate of diffusion. Dip-diffusion of lumber must result in a retention of 0.28 lbs/ft³ (4.5 kg/m³) B₂O₃ for Formosan termite protection. The final loading of DOT must conform with AWWPA specifications U1-10 an T-10.

The required dip diffusion immersion times and solution concentrations will vary according to the species of wood treated. Increasing the dip time, concentration and temperatures increase the loading of the DOT. The wood must conform with AWWPA Standards: 0.17 lbs/ft³, (2.8 kg/m³) B₂O₃ or 0.26 lbs/ ft³ DOT (4.2 kg/m³) against Non-Formosan termites. Formosan termites require 0.28 lbs/ft³ B₂O₃ (4.5 kg/m³) or 0.42 lbs/ ft³ DOT (6.7 kg/m³ DOT).

BRUSH AND SPRAY APPLICATIONS

Lumber treated by brush and spray applications shall conform with all AWWPA (American wood Preservation Association) Standards. The moisture content of the wood must be a minimum of 17%. Higher initial moisture contact will increase the concentration of the DOT. For control of termites, Carpenter ants and wood decay fungi, apply the 15% aqueous solution of DOT by brush or spray until the surface is thoroughly wet (1 gallon per 200 square feet). For adequate loading of the DOT per AWWPA specifications, treatment must be conducted a second time (or even a third time for Dampwood or Formosan Termites) after the surface has dried. A single coat of 15% DOT solution at 200 sq. ft./ gallon, will give 0.15 lbs/ft³ (pcf., pounds/cubic foot) of the active ingredient (DOT, Disodium Octaborate Tetrahydrate) to 0.6 inch depth of the sprayed surface.

NOTICE TO WOOD TREATER

PRESSURE TREATMENT: Pressure treatment of wood and wood-foam structural components must rigidly adhere to the current specifications of Disodium Octaborate Tetrahydrate established by the American Wood Preservers' Association (AWPA).

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: Nonrefillable Container.

Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Notice: Because of many varying conditions affecting use and application, manufacturers warns buyer that these may impair or vary the results of the use of this product. In any event, complete prevention of decay by fungi or other organisms is not guaranteed. Neither manufacturer nor seller shall be liable in respect to any injury or damage suffered by reason of the use of this product for purpose not indicated by the label or when used contrary to the directions or instructions hereon more with respect to breach of any warranty not expressly specified herein. Buyer accepts this material is subject to these terms, assumes all risk of usage and handling except when used or handled in accordance with this label. Neither manufacturer nor seller, makers, and their employees and agents are permitted to make, any representations or warranties, express or implied to the extent not prohibited by applicable law.