



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 6, 2015

Susan Stracquatano
Agent, U.S. Borax, Inc.
Delta Analytical Corporation
12510 Prosperity Drive
Suite 160
Silver Spring, Maryland 20904

Subject: Label Amendment – Voluntary Termination of Use
Product Name: Borogard ZB
EPA Registration Number: 1624-120
Application Date: 11/17/2014
Decision Number: 496304

Dear Ms. Stracquatano

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.

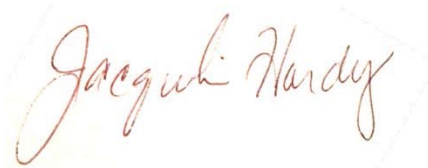
You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you 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 Jaclyn Pyne by phone at 703-347-0213, or via email at pyne.jaclyn@epa.gov.

Sincerely,

A handwritten signature in red ink that reads "Jacqueline Hardy". The signature is written in a cursive style and is enclosed within a faint, light-colored rectangular border.

Jacqueline Hardy, Product Manager (34)
Regulatory Management Branch II
Antimicrobials Division (7510P)

Enclosure: Stamped Accepted Label dated 8/6/2015

Biocide

[Zinc Borate] and [Wood Preservative]

For use only as a biocide, additive in the manufacture of wood- and wood-plastic composites, and plastic products

Active ingredient

Zinc Borate ($2ZnO \cdot 3B_2O_3 \cdot 3.5H_2O$)100%

EPA Reg. No. 1624-120

EPA Est. 1624-CA-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

NOT FOR FOOD OR DRUG USE

FIRST AID

In case of emergency: Call the 24 hour medical emergency number (see below), a Poison Control Center or doctor for treatment advice. Have the product container or label with you when calling or going for treatment.

If in eyes: Hold the 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.

If swallowed: Call the emergency number listed below or a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse the skin immediately with plenty of water for 15-20 minutes.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, estuaries, oceans or other waters unless in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) permit and unless the authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the appropriate sewage treatment plant authority. For guidance contact your State or Regional Office of the EPA.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read *Borogard ZB* Product Profile for formulation details.

STORAGE AND DISPOSAL

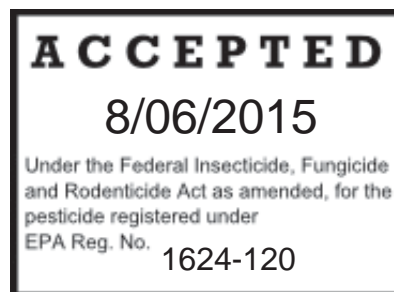
Do not contaminate water, food or feed by storage or disposal. **Pesticide Storage:** Store in a dry place. Do not store where children or pets may gain access.

Pesticide Disposal: Wastes resulting from the use of this product should be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, as allowed by state and local authorities, by burning. If burned, stay

Notice: Neither manufacturer nor seller shall be liable in respect to any injury or damage by reason of the use of this product for a purpose not indicated by the label, or for breach of any warranty to the directions or instructions hereon, nor with respect to breach of any warranty specified herein. Buyer accepts this material subject to these terms, and assumes all liability for storage and handling except when used or handled in accordance with this label.

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**NET CONTENTS 50
(25 kg net)**



Product Profile

Borogard® ZB

DIRECTIONS FOR USE

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

GENERAL USE INSTRUCTIONS

Borogard® ZB is a free flowing, readily dispersible, bright white powder, which does not detract from bright colors or pure whites. Its optimum performance as a biocide is obtained when *Borogard* ZB is uniformly dispersed in wood, wood plastic composites, plastic, and rubber products.

WOOD AND WOOD-PLASTIC COMPOSITES

Borogard ZB wood preservative provides protection from wood destroying organisms for wood composite materials used in protected above-ground applications (UC1, UC2 and UC3A) and for wood-plastic composites in unprotected, above-ground applications (UC3B). By adding *Borogard* ZB prior to or during the blending process, it is possible to achieve a thorough and uniform distribution of the chemical throughout the composite material. *Borogard* ZB can be used as an additive in the manufacturing of wood- and wood-plastic composites in order to control the growth of white (*e.g. Trametes versicolor*) and brown (*e.g. Gloeophyllum trabeum*) rot decay fungi. *Borogard* ZB also helps protect composite materials from damage caused by wood destroying insects.

The ability of a wood- and wood-plastic composite to resist wood destroying organisms is dependent on wood species, resin type, resin and wax content, method of production, exposure hazard and the presence of wood preservatives. In independent tests performed in Hawaii on aspen flake wood-composites, *Borogard* ZB wood preservative at a retention of 0.75% (w/w) provided protection against decay fungi. The data presented above is intended to serve only as a guideline and the wood- and wood-plastic composite manufacturer must determine the *Borogard* ZB loadings for their treated product and its end-use application. *Borogard* ZB loadings must not exceed 8% (w/w) and for wood-composite loadings in excess of 1.5% (w/w) it may be necessary to use additional adhesive binder to compensate for possible effects on strength.

PLASTIC AND RUBBER PRESERVATIVE

Borogard ZB controls mixed fungi such as *Aspergillus niger*, *Penicillium funiculosum*, *Chaetomium globosum*, *Trichoderma (Gliocladium) virens* and *Aureobasidium pullulans*. The effective level is dependent on fungal susceptibility of the product, as well as the ultimate conditions for the use of the product. For interior applications, such as, PVC carpet-backing, wall coverings, auto upholstery, shower curtains, and urethane mattresses, apply 3 – 20 phr of *Borogard* ZB. For exterior applications such as polyolefin wire and cables, PVC tenting and awnings, apply 3 – 30 phr of *Borogard* ZB. No plastic formulation can exceed 100 phr of *Borogard* ZB additive.

Formula: $2\text{ZnO}\cdot 3\text{B}_2\text{O}_3\cdot 3.5\text{H}_2\text{O}$

Typical

ZnO	.....	38.2%
B ₂ O ₃	.....	48.2%
H ₂ O	.....	13.6%
CAS No	.....	138265-88-0 (12447-61-9)
EPA Reg. No	.....	1624-120
TSCA No	.....	1332-07-6
Formula weight	.....	434.66
Color	.....	White
Refractive index	.....	1.58
Particle size	.....	Median particle size is typically 9 microns (laser diffraction)
Crystal density	.....	174.7 lb/ft ³
Bulking value	.....	0.043 U.S. gal/lb
Solubility	.....	Less than 0.28 wt. % in water at room temperature Can be hydrolyzed by strong acids and bases
Oil absorption	.....	35g oil/100g (ASTM 281-84, Typical)
Containers: Multiwall paper bags with a polyethylene moisture-resistant film barrier, 50 pounds (22.68 kg) net; or superbags with polyethylene liner, 2500 pounds (1133.79 kg) net		

Notice: There are no warranties, express or implied including any warranty of fitness for a particular purpose, which extend beyond the described uses in this bulletin.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

***Borogard*[®] is a registered trademark of U.S. Borax Inc.**

If possible uses of these products have been mentioned herein, it is not intended that the above products be used to practice any applicable patent, whether mentioned in this Product Profile or not, without procurement of a license, if necessary, from the owner following investigation by the user. Nor is it intended or recommended that the products be used for any such described purposes without verification of their safety and efficacy for such purposes. Suggested application rates for use of this product are based upon data believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as the effects of such or the result to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

U.S. Borax Inc.

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USA
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