

75630-1

06/09/2004

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
1200 Pennsylvania Avenue NW  
Washington, D.C. 20460

EPA Reg. Number:  
75630-1

Date of Issuance:  
June 9, 2004

NOTICE OF PESTICIDE:  
  x   Registration  
       Reregistration

The term of Issuance:  
Conditional

Name of Pesticide Product:  
ZINC BORATE

(Under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Royce Associates  
35 Carlton Avenue  
East Rutherford, NJ. 07073

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the labeling changes listed below before you release the product for shipment:

- a. Revise the "EPA Registration Number to read, "EPA Reg No. 75630-1"
- b. The environment hazards heading must read "***Environmental Hazards,***" not environmental stewardship as currently listed on the label.

Signature of Approving Official:

Adam Heyward  
Product Manager 34  
Regulatory Management Branch II  
Antimicrobials Division (7510C)

Date:

JUN - 9 2004

- c. The signal word "Caution: is required in two different places on the label, the precautionary statement heading and child signal word statement. The precautionary statement heading must be revised to read:

**"Precautionary Statements  
Hazards to Humans and Domestic Animals  
Caution"**

The Child signal word must read as follows:

**"Keep Out of Reach of Children  
Caution"**

- d. The First Aid Statement must be separated from the precautionary statement and read as follows:

### **FIRST AID**

**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. Call a Poison Control Center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 1-20 minutes. Call Poison Control Center or doctor for treatment advice.

**IF SWALLOWED:** Call 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 by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

In case of emergency call (insert toll-free emergency number).  
Have the product container or label with you when calling a Poison Control Center or doctor or going in for treatment.

- e. Add the following statement to the label:

"Refer to the attached (or enclosed) Technical Data Sheet for general use sites and instructions."

- f. Add the following statement to the label and Technical Data Sheet:  
"Do Not Use in Materials Intended for Food Contact Use"
- g. The storage and disposal statement format must be displayed as follows:

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage and disposal

**Pesticide Storage:** Store in original . . . in a safe place.

**Pesticide Disposal:** Pesticide wastes are . . . Office for guidance."

**Container Disposal:** Triple rinse container . . . If burn stay out of smoke."

- h. The federal labeling misuse statement must be revised to read as follows:  
"It is a violation of Federal law to use this product in a manner inconsistent with its labeling."

3. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,



Adam Heyward  
Product Manager 34  
Regulatory Branch II  
Antimicrobials Division (7510C)

Enclosure:

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Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

**Proposed Label**

**Zinc Borate**

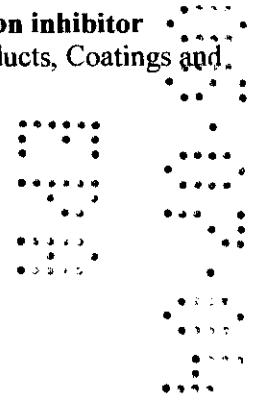
EPA Registration No. 75630-1 **75630-1**

**Biocide (Fungicide/Preservative), Fire Retardant, Corrosion inhibitor**

For use as a Biocide Additive in Manufacturing of, Wood Composite products, Coatings and Polymers

Active Ingredient:

Zinc Borate (2ZNO, 3B <sub>2</sub> O <sub>3</sub> , 5H <sub>2</sub> O).....	99.5%
Other Ingredients.....	0.5%
Total.....	100.0%



**Keep out of reach of children**

**Caution**

PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals. Cause moderate eye irritation. Avoid contact with eyes and clothing. Wash thoroughly with soap and water after handling. If swallowed, immediately call physician or poison control center. If these are unavailable give victim 1 to 2 glasses of water and induce vomiting by toughing the back of the throat with fingers. Do not induce vomiting or give anything by mouth to an unconscious victim. If in eyes, flush with plenty of water. If inhaled, remove victim to fresh air.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in a dry place. Do not store where children or animals could gain access.

DISPOSAL: Wastes resulting from the use of the product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty container by shaking and tapping on sides and bottom to loosen clinging particles. Empty residue into application equipment. Dispose of liner in sanitary landfill or by incineration if allowed by state or local authorities. Drum and or Super Sack are reusable for same product, but if unusable due to damage or contamination, dispose of in same manner.

**Environmental Stewardship**

Do not discharge effluent containing this product into any waterways unless this product is specifically identified and addressed in NPDES permit. Do not discharge effluent containing this product into sewer system without previously notifying the sewage treatment plant authorities. For guidance, contact your State Water Board or Regional Office of the EPA.

**Directions for Use**

Federal law prohibits use of this product in manner inconsistent with its labeling. Read Zinc Borate Technical Data Sheet for details on product use.

This is a "Royce Performance" Product

Provided by;

Royce Associates LP

35 Carlton Avenue, East Rutherford, NJ 07073

Emergency Phone: 1-800-424-9300

Technical Information: 1-610-756-3951

Net Contents: 250 lbs.

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**Proposed Technical Data Sheet****Fiberguard**  
A Royce Performance Product**General Use Instructions**

**Fiberguard** (Zinc Borate) is a free flowing, readily dispersible, white powder, which does not detract from colors, or whites. Its optimum performance is as a Biocide (fungicide and preservative) and corrosion inhibitor and this is obtained when our product is uniformly dispersed in a coating or composite. With a coating it should be incorporated during the pigment dispersion cycle in the coating preparation process.

**Fungicide / Biocide Applications** (also as an in-can preservative)Wood Composite Materials:

Zinc Borate is an effective wood preservative for wood composite materials used in above ground applications. Zinc Borate can be used as an additive in the manufacturing of wood composite materials in order to prevent fungal growth (white, *trametes veriscolor*, and brown, *gleophyllum trabeum*, rot). Zinc Borate should be combined with the adhesive binder and wood particles before the curative stage. The loading of the Zinc Borate must be at least 0.5% and not to exceed 10% depending on the wood species.

Plastic, Coatings, and Rubber Products:

Zinc Borate controls mixed fungi such as *aspergillus niger*, *penicillium funiculosum*, *chaetomium globosum*, *glicociadium vivens*, and *aureobasidium pullulans*. It is also an effective in can paint preservative. The recommended coatings formulation is 0.25-2.5lb/gal. of Zinc Borate. For interior applications such as; PVC carpet-backing, wall coverings, auto upholstery, shower curtains, and urethane mattresses a loading of 3-20 phr of Zinc Borate is recommended. For exterior applications such as; poly olefin wire and cables, PVC tenting and awnings, acrylic roof coatings, 3-30 phr is recommended.

**CONTAINERS**

Super sacks (containing 2,700 lbs) that are multi-walled with polyethylene moisture resistant film liners, fiber drums (250 lbs) with polyethylene liners, and multi-wall paper bags (50lbs) with polyethylene liners. We also provide many other container types upon request.

**Warning: On all products, avoid prolonged inhalation or skin contact. Not for food or drug use. Read Material Safety Data Sheets and all other instructions relating to this product before use.**

**Notice: There are no warranties expressed or implied including any warranty of fitness for a particular purpose, which extends beyond the described use in this bulletin.**

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**Formula:**  $2ZnO \cdot 3B_2O_3 \cdot 3.5H_2O$

% ZnO (theo.).....	37.45
% B <sub>2</sub> O <sub>3</sub> (theo.).....	48.05
% H <sub>2</sub> O (theo.).....	14.50

CAS No: 138265-88-0 (12447-61-9) / TSCA No: 1332-07-6

Formula Weight.....434.66

Color: White

Refractive Index.....1.58

Particle Size: Mean particle size is typically in the range of 10 microns.

Crystal Density.....2.8 g/cm<sup>3</sup>

Bulking Density (loose pack, typical).....25-40 lb/ft<sup>3</sup>

Solubility: Less than .28 wt. % in water at room temperature. Can be hydrolyzed by strong acids and bases.

Oil Absorption.....30g oil/100g  
(ASTM 281-84)

**Warning: On all products, avoid prolonged inhalation or skin contact. Not for food or drug use. Read Material Safety Data Sheets and all other instructions relating to this product before use.**

**Notice: There are no warranties expressed or implied including any warranty of fitness for a particular purpose, which extends beyond the described use in this bulletin.**

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 bulletin or not, without procurement of a license, if necessary, from the owner, following investigation of 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.

Our recommendations 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 to the effects of such or the result to be obtained if not used in accordance with directions or established safe practices. The buyer must assume all responsibility, including injury or damage, resulting from misuse as such, or in combination with other materials.