

ZB-SHIELD®

ZINC BORATE

For use as a biocide (fungicide/preservative) additive in the manufacture of wood composites and wood-plastic composites.

EPA Registration Number 64405-35

EPA Est. No. 64405-TN-1

ACTIVE INGREDIENT

Zinc Borate..... 99.8%
Other ingredients..... 0.2%
Total 100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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 eye.
If Swallowed	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 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 minutes.
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 center or doctor for further treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-353-5053 for emergency treatment information.

Personal Protective Equipment (PPE)

Super sack bag handlers involved in opening must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.

As of January 1, 2022, the application of zinc borate from super sacks must be accomplished with remotely operated engineering controls that achieve closed loading of zinc borate powder. Once engineering controls are implemented, respirators for handlers of zinc borate super sacks will no longer be required.

PRECAUTIONARY STATEMENTS

Hazardous to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. 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 directly into lakes, streams ponds, estuaries oceans or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the Environmental Protection Agency (EPA).

Notice

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read **Warranty Disclaimer** and **Limitation of Remedies** statements found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Disclaimer** and **Limitation of Remedies**.

Directions for Use

NOT FOR FOOD OR DRUG USE

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

Fungicide Applications

ZB-Shield Zinc Borate provides protection from wood destroying fungi for wood composite products used in above ground applications. Typical applications include decay resistant siding, roofing and subflooring. Wood composites treated with ZB-Shield Zinc Borate are not suitable for ground contact, for optimum performance protect with a water repellent coating when used in exterior applications. When ZB-Shield Zinc Borate is used in wood composites it should be uniformly distributed throughout the product to provide its most efficient use.

Use ZB-Shield Zinc Borate in the manufacture of wood and wood-plastic based composites to control the growth of fungi. This product also helps protect composite materials from damage caused by wood destroying insects. It may be used for wood composite materials in above-ground applications and for wood-plastic composites in unprotected, above-ground applications. Add ZB-Shield Zinc Borate prior to or during the blending process in order to achieve a thorough and uniform distribution of zinc borate throughout the composite material. ZB-Shield Zinc Borate loadings must not exceed 8% (w/w). 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.

ZB-Shield Zinc Borate can also be used in wood plastic composites to protect the wood component of the product. It has also been shown to provide resistance to the growth of molds on the surface of these products at loadings of 3% and greater. The ability of both wood composites and wood plastic composites to resist decay and mold organisms is dependent on the wood type, plastic type, method of production, other additives employed, exposure conditions and the amount of preservative employed.

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 Handling:** Non-refillable container. Do not refill or reuse this container for any other purpose. Completely empty bag into application equipment, then offer for recycling, if available, or 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.

WARRANTY DISCLAIMER

To the extent not prohibited by applicable law, Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent not prohibited by applicable law, **MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

Inherent Risks of Use

The directions for use of this product are believed to be adequate and must be carefully followed. It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions, abnormal conditions, the presence of other materials, climatic conditions or the manner of application, all of which are beyond the control of the Manufacturer. To the extent not prohibited by applicable law, the buyer/user assumes all such risk.

Limitation of Remedies

To the extent not prohibited by applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories) shall be limited to, at Manufacturer's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent not prohibited by applicable law: a) Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless Manufacturer is promptly notified of such loss or damage in writing; and b) **TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW, IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

The terms of this **Warranty Disclaimer** and **Limitation of Remedies** cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of this **Warranty Disclaimer** or **Limitation of Remedies** in any manner.

It is not intended that this product be used to practice any applicable patent, whether mentioned or not, without procurement of a license, if necessary, from the owner, following investigation by the user.

Net Contents 1700 lb (771.107 Kg)



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