

70871-16

5/20/2013

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BOB MACDONALD
Agent for INHOLD, LLC
SCIENTIFIC & REGULATORY CONSULTANTS, INC
PO Box 1014
COLUMBIA CITY, Indiana 46725

MAY 20 2013

BIOSHIELD® AM 500 I
EPA Registration Number: 70871-16
Application Dated: February 22, 2013
Receipt Date: February 25, 2013

Dear Mr. MacDonald:

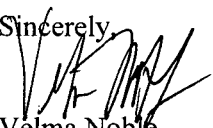
The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

- Labeling amendment to delete certain application methods as prescribed in EPA letter dated January 25, 2013

General Comments

A stamped copy of the accepted labeling is enclosed. Submit 1 copy of your final printed label before distributing or selling the product bearing the revised labeling. Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347 0199 or Velma Noble at (703) 308-6233.

Sincerely,


Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

Attachment: Stamped Label

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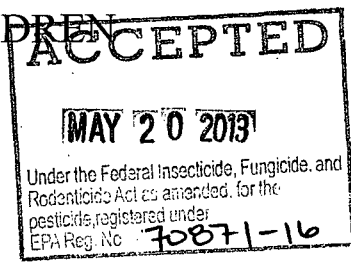
BIOSHIELD® AM 500 I
ANTIMICROBIAL AGENT*

For Manufacturing Use Only

A Silicone Quaternary Ammonium Salt

KEEP OUT OF REACH OF CHILDREN

WARNING



Active Ingredient: 3-(trihydroxysilyl) propyldimethyloctadecyl ammonium chloride.....5.0%
Other Ingredients:95.0%
Total Ingredients:100.0%

EPA Reg. No. 70871-16

EPA Est. No. XXXX-XX-XXX

Net Contents: 1, 5, 30, 55, 275 gal or 5500 gal (tanker qty)

Lot No.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria and fungi (mold and mildew), bacteria and fungi (mold and mildew) which cause staining and discoloration, and algae. This product does not protect users or others against food-borne or disease causing bacteria or fungi.

Note: {Bracketed Text} is for administrative purposes only and will not appear on the printed label.

FIRST AID

Have the product container or label with you when calling the poison control center or doctor, or going for treatment.

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, and then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call 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.

ACCEPTED

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

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. Causes substantial but temporary eye injury. Harmful if absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin, eyes and clothing. Avoid breathing vapor or spray mist. Wear protective eyewear and protective clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using the toilet. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

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

Every effort should be made to contain accidental spills of BIOSHIELD AM 500 I to the immediate area. This may be accomplished by the use of sandbags or barrier material to confine the spill to facilitate cleanup and disposal. Contaminated sands or barrier material may then be disposed of by burial in an approved landfill. Many spills may be cleaned up with rags or other absorbent materials by wiping, soaking and/or mopping and allowing the liquid to absorb onto the material. The absorbent material may then be disposed of by incineration or landfill. Floor drains in areas of material use should be protected with absorbent material or barrier material to contain accidental spills.

De-activation required during clean up if a spill occurs. De-activation of BIOSHIELD AM 500 I can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of BIOSHIELD AM 500 I.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

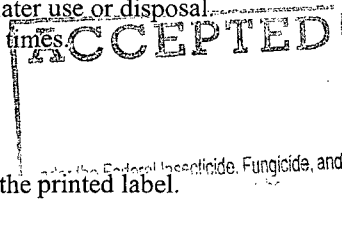
Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

{Insert applicable triple rinse instructions for container size below}

{5 gal or less}

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.



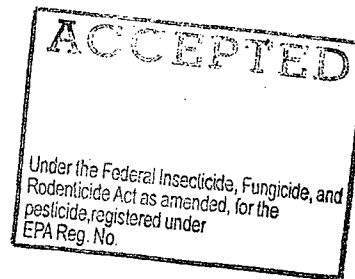
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{More than 5 gal}

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensure at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Then offer for recycling if available, or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities.



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DIRECTIONS FOR USE

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

Do not use in any application involving direct or indirect food or drinking water contact.

For use in Formulating, Manufacturing, and Fabricating of Treated Article Products Specified under "approved uses." BIOSHIELD AM 500 I may be used in materials that are incorporated into manufactured products. The final article may contain from 0.1 to 1.0% by weight active ingredient.

For Industrial Use Only

This product is registered for formulation into Antimicrobial Products or as a microbiostatic agent for material preservation; neither this product nor the articles treated with this product may state or imply any public health claims. Articles or substances treated with this product will be exempt from FIFRA regulation pursuant to 40 CFR 152.25 (a) if the intended use for incorporating the material into a treated article or substance is for the protection of the article or substance itself.

APPROVED USES: The active ingredient in BIOSHIELD AM 500 I is effective against fungi (including, mold and mildew) and algae which cause odors, staining and discoloration as a static agent. BIOSHIELD AM 500 I can be used for incorporation into the treatment of the following items or substrates to impart bacteriostatic/fungistatic activity. BIOSHIELD AM 500 I may be applied to or incorporated into manufactured products listed below for use in industrial, institutional, commercial or residential locations for non-food contact uses.

USES	TYPES OF FINISHED PRODUCTS
<p>BUILDING MATERIALS AND COMPONENTS Metal, plastic, concrete</p>	<p>Siding, wall board, insulation, concrete and concrete products, cinder blocks, brick, stone, ceiling tiles, architectural metal, louvers, vents, coping.</p>

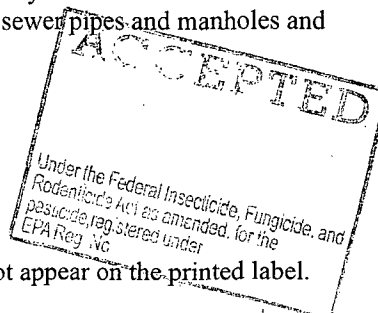
BIOSHIELD AM 500 I may be used in materials that are incorporated into manufactured products at the point of manufacturing. The final article may contain from 0.1 to 1.0% by weight active ingredient. Contact INHOLD, LLC to determine the specific rates within this range for individual finished products.

MOLD AND MILDEW CONTROL IN WALLBOARD, CONCRETE, AND MASONRY (CINDER) BLOCK CONSTRUCTION (Used In the Manufacture of construction products)

BIOSHIELD AM 500 I is used to treat wallboard, concrete, and masonry (cinder) block building materials to inhibit and prevent the growth of mold organisms when the materials are subjected to moist or wet environments.

CONCRETE/PRODUCTS

BIOSHIELD AM 500 I when used as a concrete additive is added directly during concrete preparation. Use 16 fluid ounces BIOSHIELD AM 500 I per cubic yard (approx.2% active by weight or water) of concrete. Add to water before addition of concrete. Addition of BIOSHIELD AM 500 I reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion. BIOSHIELD AM 500 I can be used as a concrete additive for repair and renewal of sewer pipes and manholes and concrete sewer structures. **Do not use** in treatment of storm drains.



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METAL PRODUCTS

(Not for treatment of in place Heating, Ventilation, Air Conditioning, and Refrigeration Systems surfaces such as louvers, vents and ducts.)

Dilute 16 ounces of BIOSHIELD AM 500 I per gallon of water (.625% active); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth and sponge. If spotting occurs, wipe with moist cloth or sponge. BIOSHIELD AM 500 I treats approximately 200 square feet per diluted gallon of water.

PREVENTATIVE TREATMENT

To inhibit surface mold and mildew growth on wood, wallboard, concrete, and masonry (cinder) block construction materials. Mix BIOSHIELD AM 500 I into water at the rate of 1 gallon (10.5 lb) per 50 gallons of water apply evenly by paintbrush, airless sprayer, low pressure hand wand, or backpack sprayer. Assure uniform coverage of surfaces to be protected (approximately 500 sf per gallon). Surfaces should be evenly wet without runoff or pooling. Let surfaces dry thoroughly before applying additional coatings. Before applying this product, visible mold growth must be removed and conditions favorable to mold growth must be identified and corrected.

USES	TYPES OF FINISHED PRODUCTS
ROOFING MATERIALS	Shingles, roofing granules, tiles, membranes, underlayment, wood shakes, felt, stone, concrete, synthetic overcoats.

BIOSHIELD AM 500 I may be used in materials that are incorporated into manufactured products at the point of manufacturing. The final article may contain from 0.1% to 1.0% by weight active ingredient. Contact INHOLD, LLC to determine the specific rates within this range for individual finished products.

USES	TYPES OF FINISHED PRODUCTS
WALLS AND FLOORING	Vinyl, wood, laminate, concrete, tile, stone, wallboard, plaster, dryvit concrete, cinder block, brick, wall paper and wall coverings, carpet, underlayment, mats.

BIOSHIELD AM 500 I may be used in materials that are incorporated into manufactured products at the point of manufacturing. The final article may contain from 0.1% to 1.0% by weight active ingredient. Contact INHOLD, LLC to determine the specific rates within this range for individual finished products.

For Dipping/Soaking Application: Dilute 8 ounces of BIOSHIELD AM 500 I per gallon of water (2 oz. per quart; 1 oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do no reuse solution after dipping/soaking.

For Spray Application: Dilute 8 ounces of BIOSHIELD AM 500 I per gallon of water (2 oz. per quart; 1 oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIOSHIELD AM 500 I treat approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIOSHIELD AM 500 I may be required due to absorption. Dry articles in accordance with standard manufacturing drying procedures. A fan may be used to assist in drying carpeting. The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), or industry standards for drying.

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

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USES	TYPES OF FINISHED PRODUCTS
<p><u>FIBERS AND FABRICS (NATURAL AND SYNTHETIC, WOVEN AND NON-WOVEN)</u> Acetates, acrylics, cotton, nylon, lycra, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool, orlon, silk and blends of these fibers and natural down.</p>	<p><u>Apparel</u> including recreational gear, sportswear, sleepwear, sock, hosiery, undergarments, gloves, uniform, footwear (boots, shoes and components) shoe insoles, athletic and casual shoes. <u>Outwear</u> (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos) bedspreads, blankets, sheets, pillow covers, quilts, pillows, mattress pad, ticking, filling, sleeping bags. <u>Upholstery</u>, curtains drapery, mats, throw rugs, furniture, vinyl, towelings, awning, tents, tarpaulin, sails, rope and other outdoor equipment, umbrellas</p>

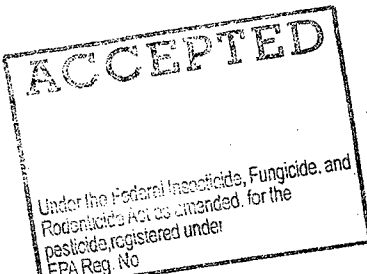
BIOSHIELD AM 500 I may be used in materials that are incorporated into manufactured products at the point of manufacturing. The final article may contain from 0.1% to 1.0% by weight active ingredient. Contact INHOLD, LLC to determine the specific rates within this range for individual finished products.

BIOSHIELD AM 500 I is approved for use in formulation microbiostats for use in laundry additives, carpet treatment products, and upholstery and drapery treatment products.

For Spray Application: Dilute 8 ounces of BIOSHIELD AM 500 I per gallon of water (2 oz. per quart; 1 oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIOSHIELD AM 500 I treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIOSHIELD AM 500 I may be required due to absorption. Dry articles in accordance with standard manufacturing drying procedures. A fan may be used to assist in drying carpeting.

For Dipping/Soaking Application: Dilute 8 ounces of BIOSHIELD AM 500 I per gallon of water (2 oz. per quart; 1 oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do no reuse solution after dipping/soaking.

The substrate can be dried at room temperatures or at temperatures to a maximum of 160°C (320°F), or industry standards for drying.

USES	TYPES OF FINISHED PRODUCTS
<p>PAINTS AND COATING</p> 	<p>BIOSHIELD AM 500 I can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinyl ester and polyester coatings, gel coatings, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof</p>

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BIOSHIELD AM 500 I can be used in paints and coatings as an in can preservative for protection of paint film and coating film. The final article may contain from 0.1% to 1.0% by weight active ingredient. Contact INHOLD, LLC to determine the specific rates within this range for individual products.

PAINTS AND COATINGS

IN CAN PRESERVATIVE USE

Incorporate this product into coating that are intended for end use applications. The purpose of the coating is to seal the end product from moisture and corrosion. The purpose of BIOSHIELD AM 500 I in the coating as an in can preservative is to inhibit the growth of mold, mildew, fungus and bacteria that cause odor, discolorations, staining, deterioration or corrosion on the surface of the coating film. The product protects the applied coating itself from microorganism attack, not the underlying substrate. This product is not intended for remediation, prevention or control of existing or anticipated public health related microorganism.

PAINTS AND COATINGS

Disperse 100.9 lb to 151.35 pounds (100.9 lb = 100.9 lb/1,009 lb. X 5% active of BIOSHIELD AM 500 I = .5% active) of BIOSHIELD AM 500 I per 100 gallons (1,009 lbs = 100 gal. Specific Gravity = 1.2) of exterior paint to obtain effective mildew control in the paint film after it is applied. Use the high rate in areas favorable to mildew and mold growth, such as where painted surfaces frequently are warm and moist. Disperse 151.35 pounds (151.35 lbs / 1,009 lb. X 5% active of BIOSHIELD AM 500 I = .75% active) of BIOSHIELD AM 500 I per 100 gallons (1,009 lbs = 100 gal. Specific Gravity = 1.2) when added to stains designed for exterior wood, also protects the wood from surface molds and mildew stains cause by fungi.

Disperse 100.9 lb to 151.35 pounds (100.9 lb = 100.9 lb/1,009 lb. X 5% active of BIOSHIELD AM 500 I = .5% active) of BIOSHIELD AM 500 I per 100 gallons (1,009 lbs = 100 gal. Specific Gravity = 1.2) of interior latex paint.

BIOSHIELD AM 500 I can be used with either unmodified or alkyd modified acrylic, vinyl acrylic, or polyvinyl acetate latexes.

BIOSHIELD AM 500 I can be added into the paint formula during the pigment grind operation, during or after letdown.

DO NOT use in paints designed for applications on food-contact surfaces.

AQUEOUS ADHESIVES COATINGS

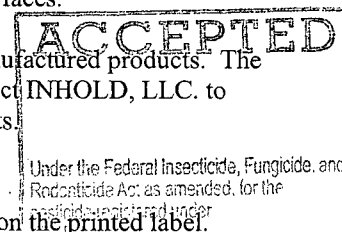
BIOSHIELD AM 500 I may be incorporated into adhesives to protect the applied adhesive films from mold growth and decomposition. Fully disperse 100 pounds to 150 pounds (100 lb = 100 lb / 1,000 lb X 5% active of BIOSHIELD AM 500 I = .5% active) of BIOSHIELD AM 500 I per 1,000 pounds of adhesive while it is being manufactured. Use the high rate in areas favorable to mildew to mold growth, such as where surfaces frequently are warm and moist. **DO NOT** use in adhesives designed for applications on food-contact surfaces, or on the interior of buildings engaged in food processing or food handling.

AQUEOUS CAULKS AND SEALANT COATINGS

To provide mildew and mold control on caulking or sealing deposits after application, fully disperse 100 pounds to 150 pounds (100 lb = 100 lb / 1,000 lb X 5% active of BIOSHIELD AM 500 I = .5% active) of BIOSHIELD AM 500 I per 1,000 pounds of caulk or sealant products while they are being manufactured. The high rate is recommended for exterior caulks.

DO NOT use in caulks or sealants designed for applications on food-contact surfaces.

BIOSHIELD AM 500 I may be used in materials that are incorporated into manufactured products. The final article may contain from 0.1% to 1.0% by weight active ingredient. Contact INHOLD, LLC. to determine the amount of BIOSHIELD AM 500 I for individual finished products.



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For Dipping/Soaking Application: Dilute 8 ounces of BIOSHIELD AM 500 I per gallon of water (2 oz. per quart; 1 oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

USES	TYPES OF FINISHED PRODUCTS
MISCELLANEOUS	Polyurethane and cellulose foam for household, industrial and institutional mop, polyurethane and polyethylene foam, when covered, polyurethane foam for packaging and cushioning in non-food contact applications, polyurethane foam used as a growth medium for non-food crops and plants, pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties), vacuum cleaner bags and filters, sponges and mops, disposable polyurethane foam cushions for Lapidus Airfloat Systems, non-woven disposable diapers, foam for packing and cushioning in non-food contact applications, conveyor and humidifier belts, buffer pads (abrasive and polishing), bathroom and non-food contact kitchen hardware, air filters to be installed in furnaces; air conditioners, air purification devices, automobiles and recirculating air handling systems. Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; these do not impart pesticidal properties.

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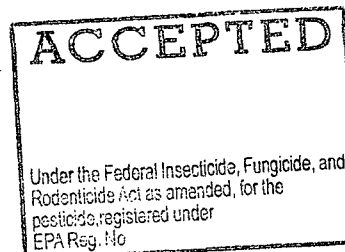
For Dipping/Soaking Application: Dilute 8 ounces of BIOSHIELD AM 500 I per gallon of water (2 oz. per quart; 1 oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

EPA REGISTRATION REQUIREMENTS:

The applications for which this product is used may require approval by the Environmental Protection Agency on an end-use basis in regard to claims made thereof. Formulators are responsible for satisfying registration requirements for their products.

FOR MORE INFORMATION CONCERNING THIS PRODUCT, PLEASE CONSULT THE MATERIAL SAFETY DATA SHEET (MSDS). THE MSDS CAN BE OBTAINED BY WRITING:

INHOLD, LLC
 2319 Joe Brown Drive
 Greensboro, NC 27405
 (336) 375-7555

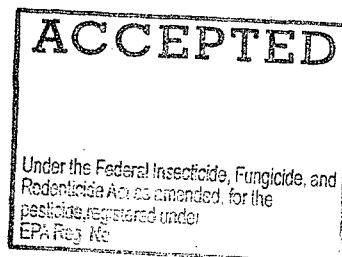


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IMPORTANT: WARRANTY AND DISCLAIMER INFORMATION

INHOLD, LLC warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated in this bulletin when used in accordance with directions under normal conditions of use; but this warranty of fitness for a particular purpose does not extend to the use of this product contrary to bulletin instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the seller, and buyer assumes the risk of any such use.

INHOLD, LLC SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY.



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