



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON D C 20460

OFFICE OF PREVENTION PESTICIDES AND TOXIC SUBSTANCES

AUG 21 2012

Juli Mann Steptoe & Johnson Agent for BASF Corporation 1330 Connecticut Ave, NW Washington, D C 20036

Subject Irgaguard B 5000, EPA Reg No 40810-18 Amendment Letter dated June 28, 2012

The amendment referred to above, submitted in connection with registration under section 3 (c) (7) (A) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to add new label uses for applications involving indirect food, human drinking water, and HVAC contact, is acceptable under a time-limited restriction with the following conditions

- 1 The primary basis for granting a time-limited approval at this time is that the product has FDA indirect food contact approval under FDA Notification #248 The product must be first incorporated into food contact approved FDA polymers, and can be added up to a maximum of 3% by weight into the various products The FDA approval ir recorded at www.cfsan.fda.gov/. Note that the FDA approval is for a zinc concentration range from 19-23% in the formula, which is slightly higher than the declared nominal concentration of this product at 17 90%
- 2 The following outstanding generic data for <u>both</u> silver and zinc must be submitted (i.e., four studies total, two per active ingredient) and found acceptable by 10/1/14 You are responsible for using the correct Technical Grade Active Ingredient test substance to satisfy these data

870 3150 Subchronic oral toxicity (90 day feeding, non-rodent) 870 3800 Two generation reproduction and fertility effects, rat

The rest of the tier-one generic data set required to support these new uses is listed on the submitted data matrix. The Agency has the following comments on this matrix. On page 4/9, the listed 90 day oral toxicity study, subchronic non-rodent study, and reproduction study for silver are

listed as being submitted by "Ciba" and "own" These designations are incorrect and must be revised to reflect the data gaps for the two silver studies required above, and that only one 90-day rodent study is required On pages 2/9 and 3/9, delete the 24 listings for "Product Specific Data for Source Product" which are not needed. You must submit a signed and dated revised data matrix that reflects these changes with your final printed labels

- 3 All the indirect food/drinking water, and HVAC uses listed on the proposed draft label have a time-limited approval that automatically expires on 10/1/14
- 4 If the outstanding data listed above is fully satisfied by 10/1/14, and an aggregate risk assessment is found acceptable for all uses, the time-limited restriction will be lifted. If the data is not satisfied, and/or if the risk assessment is not found acceptable, the Agency will require you to delete all or certain affected uses.
- 5 You must submit/cite all data required for registration and/or reregistration of your product under FIFRA section 3 (c) (5) and section 4 when the Agency requires all registrants of similar products to submit such data If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e) Your release for shipment of the product constitutes acceptance of these conditions
- 6 All subsequent amendments that are approved for this product will also be time-limited to expire on 10/1/14
- 7 Submit three copies of a final printed label that makes the following clarification so that the product is used in harmony with the FDA approval, and other changes

A On page 4/6, change "Do not incorporate Irgaguard B5000 into any food contact polymer intended for commercial food packaging uses unless that food contact polymer and use condition are approved and listed in 21 CFR 174-186 (inclusive), or in the United states Food and Drug Administration's Food Contact Substance Notification System", to the following statement,

"Do not incorporate Irgaguard B5000 into any food or drinking water contact application listed on this label without first incorporating Irgaguard B5000 into a polymer which is approved, with associated use conditions, for food contact in 21 CFR 174-186 (inclusive) as amended, or in the United States Food and Drug Administration's Food Contact Substance Notification System, as amended"

A stamped copy of the approved time-limited label is enclosed for your records

If you have any questions about the comments in this letter, please feel free to contact Demson Fuller at 703-308-8062

Sincerely,

Product Manager Team 33,

Regulatory Management Branch I Antimicrobials Division (7510C)

cc Sangeeta Khattar



The Chemical Company

IRGAGUARD® B 5000

Silver-Zinc Zeolite

in the Manufacture of polymer plastic and textile A material preservative and antimicrobial for use products For Manufacturing/Fabrication Use Only

ACTIVE INGREDIENT

0 44% 1 36% 98 20% 100 00% Silver (as elemental) Zinc (as elemental) Other ingredients [otal

EPA Registration No 40810 18 EPA Establishment No 70404 AL 002

No 70404 DEU 002 No 040810-CHE 001 No 82415-JPN 001 No 84692 JPN 001 No 69829-IL 001

KEEP OUT OF REACH OF CHILDREN CAUTION

See Technical Bulletin for detailed use information

RGAGUARD® is a trademark of BASF

Material

kg/ **Batch Number** Net Weight

BASF Corporation

For 24-Hour Emergency Medical Assistance Florham Park, NJ 07932 100 Park Avenue

1-800-832-4357

DIRECTIONS FOR USE

fabrication into antimicrobial pesticides for 1) the uses listed on rgaguard® B5000 dunng the manufacturing process to impart Irgaguard® B5000 may not make public health claims relating protect users of any such treated article or others against food It is a violation of Federal Law to use this product in a manner this label and technical bulletin 2) Uses for which USEPA has When incorporated into treated articles this product does not be incorporated into the products on the technical bulletin for products only it is designed to be used in materials that may amount of Irgaguard® B5000 for individual finished products USEPA requirements Irgaguard® B5000 is an antimicrobial rgaguard® B5000 suppresses the growth of bacteria algae Uses for experimental purposes that are in compliance with incorporated into materials that may be used in the finished approved the required data and/or citations of data that the powder for the manufacture of polymeric plastic and latex borne or disease causing bactena viruses germs or other inconsistent with its labeling. See Technical Bulletin for detailed use information. Only for manufacture of or formulator has submitted in support of registration and 3) to antimicrobial activity without EPA pesticide registration discoloration staining deterioration or corrosion of those fungus mold and mildew which cause unpleasant odors Contact BASF Corporation to determine the appropriate disease causing organisms. Irgaguard® B5000 may be product at 0 1 to 3 0% of Irgaguard® B5000 by weight manufactured products Finished products containing antimicrobial activity to the manufactured products

STORAGE AND DISPOSAL

Nonrefillable container Do not reuse or refill this container Do Pesticide Disposal Wastes from the use of this product may not contaminate water food or feed by storage and disposal be disposed of on site or at an approved waste disposal Pesticide Storage Do not store in areas accessible to children Keep away from direct sunfight facility

Container Disposal Completely empty bags into processing available Otherwise dispose of empty bag and box in sanitary equipment where the pesticide is used. Offer for recycling if landfill or by incineration if allowed by state and local authorities

KEEP OUT OF REACH OF CHILDREN **Precautionary Statements** CAUTION

HAZARDS TO HUMANS

clothing. Wash thoroughly with soap and water after handling Causes moderate eye irntation. Avoid contact with eyes or

ENVIRONMENTAL HAZARDS

containing this product into lakes streams ponds estuaries. oceans or public waters unless this product is specifically This product is toxic to fish Do not discharge effluent addressed in an NPDES permit

plant authority For guidance contact your State Water Board systems without previously notifying the sewage treatment Do not discharge effluent containing this product to sewer or Regional Office of the EPA

Have the product container or label with you when calling a poison control center or doctor or going for treatment IF IN EYES

20 minutes Remove contact lenses if present after the first 5 Hold eye open and rinse slowly and gently with water for 15 minutes then continue rinsing eye

Call a poison control center or doctor for treatment advice

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registered under EPA Reg. No.

Technical Bulletin

40810-18

Irgaguard® B5000

EPA Reg No 40810-18

Material preservative and antimicrobial agent for use in the manufacture of polymer, plastic, and textile products

For Manufacturing/Fabrication Use Only

IRGAGUARD [®] B5000 is an antimicrobial pesticide for the manufacture of polymeric plastic and latex products only. It is designed to be incorporated into the materials for manufacture into final products listed below during the manufacturing process to impart antimicrobial activity to the manufactured products IRGAGUARD [®] B5000 suppresses the growth of bacterial algae fungus mold and mildew which cause unpleasant odors discoloration staining deterioration or corrosion of those manufactured products

Finished products containing IRGAGUARD [®] B5000 may not make public health claims relating to antimicrobial activity without EPA pesticide registration. When incorporated into treated articles, this product does not protect users of any such treated article or others against foodborne or disease causing bacterial viruses germs or other disease causing organisms.

IRGAGUARD® B5000 may be used in material that may be incorporated into the finished product at 0.1 to 3.0% of IRGAGUARD® B5000 by weight. Contact BASF Corporation to determine the appropriate amount of IRGAGUARD® B5000 for individual finished products.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Use only under agreement with BASF Corporation. IRGAGUARD® B5000 is intended for use as an additive into the following materials and substances as part of the manufacturing process in order to provide built in antimicrobial activity in manufactured and finished products.

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NON-FOOD CONTACT USES APPLICATIONS AND TYPES OF MATERIALS

APPLICATION	TYPES OF FINISHED PRODUCTS	3
Plastics	Appliances and equipment	Mats
Including films sheets slabs	Automobile parts	Mops
and molded plastic parts	Brush bristles	Non-woven fabrics
	Brush handles	Plastic film
	Building materials (such as hardware handles)	Plumbing supplies and fixtures (including toilet bowl seats)
	Conveyor belts	Protective covers
	Countertops	Shower curtains
	Floor coverings	Siding for housing
	Flooring	Sinks
	Footwear (including boots sports equipment and tools)	Sponges Tape
	Gaskets	Tiles
	General purpose containers	Tubing
	Indoor and outdoor furniture	Vacuum cleaner bags
	Insulation for wire and cable Insulators	Waste containers
	Kitchen and bathroom hardware Liners	

APPLICATION	TYPES OF FINISHED PRODUCTS
Fibers	Apparel (such as umbrellas outerwear sportswear sleepwear socks and hosiery caps, undergarments inner liners for jackets trim for outerwear and garments, uniforms, outerwear gloves aprons coats and shoes) Conveyor belts
	Industrial and other Household Items (such as artificial leather filters book covers mops cloth for sails ropes tents and other outdoor equipment tarps awnings bags brush bristles commercial and industrial wipes and fabrics sponges wiping cloths) Interior furnishings (such as mattress cover pads and filling pillow covers sheets blankets fiberfill for quilts and pillows curtains draperies carpet and carpet underlay rugs upholstery towels wall
	covering fabrics cushion pads sleeping bags) Packaging Transportation items (such as automotive and truck upholstery carpeting rear decks trunk liners convertible tops interior liners)

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amended for the pesticide,
registered under EPA Reg No.

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APPLICATION	TYPES OF FINISHED PRODUCTS
Coatings Films and	Appliances
Laminates	Automotive and vehicle parts
	Barrier fabrics
	Building materials and components (such as walls wallboard floors, concrete siding roofing shingles hardware floors ceilings commercial and industrial applications)
	Collection and storage equipment (such as conveyor belts piping systems silos tanks and process vessels)
	Countertops
	Furniture
	General purpose containers
	Glazing for cement tile
	Glazing for vitreous china used in plumbing fixtures (such as toilets, sinks countertops)
	Industrial equipment
	Natural and synthetic fibers and fabrics
	Packaging
	Paper products (such as wipes tissues wall coverings towels book covers)
	Sinks

APPLICATION	TYPES OF FINISHED PRODUCTS	
APPLICATION Adhesives and Sealants	Appliances Automotive and vehicle parts Bathrooms Cardboard Ceramic tile Construction materials Glazing for windows Grout and joint compound Paper Pipe sealant and insulating materials Plastic Plumbing adhesives Rubber	ACCEPTED with C With ENTS in EDA with a Dated AUG 21 2012 Under the Federal Insecticide Fungicide and Rodenticide Act as
	Sealants for pipes Showers	amended for the pesticide registered under EPA Reg No
	Wood Wood and plastic composites	40310-18

APPLICATION	TYPES OF FINISHED PRODUCTS
Miscellaneous applications	Cat litter
	Drainage and sewage pipe
	Flooring
	Plaster
	Sinks
	Stucco
	Tile
	Toilets

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APPLICATION	TYPES OF FINISHED PRODUCTS
Heating Ventilation and Air Conditioning (HVAC)	HVAC equipment and related materials including air handlers plenums coils fins insulation rigid or flexible ducts drain pans, duct support mechanisms diffusers filters heat exchangers air purifiers supplemental articles used in the assembly of HVAC systems such as gaskets fixtures sealants, adhesives and HVAC reinforcing as well as parts and components thereof. These articles could be constructed of fibrous materials (textiles) non-woven plastic or coated metal material. For use only during manufacture of the article.

FOOD CONTACT USES APPLICATIONS AND TYPES OF MATERIALS

Irgaguard B5000 may be used as an antimicrobial additive in the polymeric manufactured products listed below that are used for manufacturing packing packaging transporting handling and/or holding food if such use is not intended to have any microbial effect in the food itself. Do not incorporate Irgaguard B5000 into any food contact polymer intended for commercial food packaging uses unless that food contact polymer and use condition are approved and listed in 21 CFR 174-186 (inclusive) or in the United States Food and Drug Administration's Food Contact Substance Notification System

APPLICATION	TYPES OF FINISHED PRODUCT	S
Plastics Including films sheets slabs and molded plastic parts	Appliances and equipment Beverage dispensing equipment Bottles Brush bristles Brush handles Containers Conveyor belts Countertops Food handling equipment Food processing equipment Food storage containers Food trays and covers Food packaging Food processing utensils Gaskets General purpose containers Kitchen and bathroom hardware Liners	Mats Non-woven fabrics Plastic film Plumbing supplies and fixtures Protective covers Sinks Sponges Tape Tiles Tubing

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APPLICATION	TYPES OF FINISHED PRODUCTS	
Fibers	Apparel (such as outerwear uniforms gloves aprons coats)	
	Bags	
	Containers	
	Conveyor belts	
	Table cloths napkins wiping cloths	
	Mops sponges	
	Brush bristles	
	Filters	
	Packaging (including bags sacks wraps cushion absorbent materials	
	and containers)	
	Kitchen commercial and industrial wipes and fabrics	
	Food packaging	
Coatings Films and	Appliances and equipment	
Laminates	Barrier fabrics	
	Building materials and components	
	Collection and storage equipment (such as conveyor belts piping systems, silos tanks and process vessels)	
	Cookware	
	Countertops	
	Food wrap (including coated deli paper coated meat interleavers and plastic wrap)	
	General purpose containers	
	Glazing for cement tile	
	Glazing for vitreous china used in plumbing fixtures (such as sinks countertops)	
	Industrial equipment	
	Natural and synthetic fibers and fabrics	
	Packaging	
	Paper products (such as wipes tissues wall coverings towels	
	Plastic film	
	Sinks	

APPLICATION	TYPES OF FINISHED PRODUCTS	
Adhesives and Sealants	Appliances Cardboard Ceramic tile Grout and joint compound Paper Pipe sealant and insulating materials Plastic	ACCEPTED with COMMENTS in EPA I ther Dated
	Plumbing adhesives Rubber Sealants for pipes Wood Wood and plastic composites	AUG 2 1 2012 Under the Land Insectic de Fungicide a a Rouenticid Act as amended for the pest cida registered under EPA Mes. No.

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DRINKING WATER CONTACT USE

Irgaguard B5000 may be used for the human drinking water contact uses listed below. The additive may be incorporated into food bowls and water bowls, dishes, and other containers used by domestic animals. Do not use for any food or drinking water applications involving non domestic animals.

APPLICATION	TYPES OF FINISHED PRODUCTS
Plastics Fibers, Coatings films and laminates Adhesives and sealants	Including ice making equipment (water pans piping tubing guards ice storage bins trays ice scoops buckets valves and gaskets) drinking water contact materials (water bottles cups gaskets plumbing fixtures storage tanks and vessels water piping tubing valves spigots coolers water dispensing components housing units and water filter components)

CHEMICAL AND PHYSICAL PROPERTIES

Appearance White to grayish-white powder

Odor None detectable

Density 3 35 g/cm³ @ 25° C

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