

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

> OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Elizabeth Brown Steptoe & Johnson Agent for Ciba Corporation 1330 Connecticut Ave, NW Washington, D.C. 20036

SEP 21 2010

## Subject: Irgaguard B 5000; EPA Reg. No 40810-18 Amendment letter dated August 4, 2008

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 ass 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.

- 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 is recorded at <u>www.cfsan.fda.gov/</u>. 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 **10/1/12**. You are responsible for using the correct Technical grade Active Ingredient test substance to satisfy these data.
  - a. 870.3150 Subchronic oral toxicity (90 day feeding, non-rodent)
  - b. 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 nonrodent 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 of 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 expired on 10/1/12.
- 4. If the outstanding data listed above is fully satisfied by 10/1/12, and an aggregate risk assessment is found acceptable for all uses, the time-limited restriction will be lifted. If that 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.
- You must submit/cite all data required for registration and/or re-registration 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 10/1/12.
- 7. Submit three copies of a final printed label that makes the following clarification sot aht 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."

b. On the main label and last page of the Technical Bulletin, delete "EPA Approval Date: Not EPA approved". Keep the "Draft 10-13-2003" label date.

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

If you have any questions concerning this letter, please contact Abigail Downs at (703) 305-5259.

Sincerely,

Marshall Swindell

Product Manager (33) Regulatory Management Branch I Antimicrobials Division (7510P)

FOR 24-HOUR EMERGENCY MEDICAL AS		RGAGUARD® is a trademark of City Composition	_	
	sep away from direct nay be disposed of on site ment where the pesticide y bag and bux in sanitary	Pesticide Storage: Do not store in areas accessible to children. Keep away from direct sunlight. Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Container Disposal: Completely empity bags into processing equipment where the pesticide is used. Offer for recycling, if available. Otherwise dispose of empty bag and bux in sanilary landfill or by incineration, if allowed by state and local authorities.	CIBA CORPORATION PLASTIC ADDITIVES S40 WHITE PLANS RD, TARRYTOWN, NY 19591	
		STORAGE AND DISPOSAL Nonrefilable container. Do not reuse or refill this container. Do not contaminate water, food, or feed by storage and disposal.	Not Weight:	
<ul> <li>IF IN EYES</li> <li>Hold eye open and rinse stowly a minutes. Remove contact lenses minutes, then continue rinsing eye</li> <li>Call a obison control center or of eye</li> </ul>	be used in the finished a Corporation to idual finished products.	IRGAGUARD <sup>®</sup> ES000 may be incorporated into materials that may be used in the finished product at 0.1 to 3.0% of Irgaguard® B5000 by weight. Contact Ciba Corporation to determine the appropriate amount of IRGAGUARD <sup>®</sup> B5000 for Individual finished products.		
Have the product label or container with you when calling doctor, or going for treatment.	ublic health daims Vhen incorporated into ed article or others her disease causing	Finished products containing IRGAGUARD <sup>®</sup> 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 bacteria. viruses, germs or other disease causing organisms.	70404-AL-002 70404-AL-002 10810-CHE-001 12819-JPN-001 592-JPN-001 592-JPN-001 29-IL-001	
FIRST AID:	e of polymeric, plastic, nay be incorporated into he manufacturing process 3UARD® B5000 which cause unpleasant hufactured products.	IRCAGUARD <sup>®</sup> B5000 is an antimicrobial powder for the manufedure of polymeric, plastic, and latex products only. It is designed to be used in materials that may be incorporated into the products on the technical bulletin for ligaguard® B5000 during the manufacturing process to impart antimicrobial activity to the manufactured products. IRCAGUARD <sup>®</sup> B5000 suppresses the growth of bacteria, algae, fungus, mold and mildew which cause unpleasant odors, discoloration, staining, deterioration or corrosion of those manufactured products.	Siter (as elemental) 0.44% Zinc (as elemental) 1.36% Other ingredients 1.36% Total	
HAZARDS TO HUMANS Causes moderate eye inflation. Avoid contact with eyes or d soap and water after handling ENVIRONMENTAL HAZARDS This modure is twin to fis Do not discharge effluent contain	r 1) the uses listed on this the required data and/or tration; and 3) Uses for ents.	See Technical Bulletin for detailed use information Only for manufacture of or fabrication into antimicrobial pasticides for 1) the uses listed on this label and technical builetin: 2) Uses for which USEPA has approved the required data and/or citations of data that the formulator has submitted in support of registration; and 3) Uses for experimental purposes that are in compliance with USEPA requirements.		
PRECAUTIONARY STATEME KEEP OUT OF REACH OF CHILD CAUTION	nconsistent with its	DIRECTIONS FOR USE It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.	A material preservative and antimicrobial for use in the Manufacture of polymer, plastic, and textile products. For Manufacturing/Fabrication Use Only	
Hunder the Federal Instance Fundicide, and Roder to the amended, for the per- registered under EPE Around the 408/0-18		000	(J)	
ACCEPTED with COMPLENTS In EPA Lietter Dated: SEP 2 1 2010				

IRGAGUARD® is a trademark of Ciba Corporation EPA Registration No. 40810-18

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1-800-873-1138 L ASSISTANCE, CALL

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ontaining this product into lakes, ess this product is specifically ent containing this product to sever ent plant authority. For guidance s EPA.

ing a poison control center or

y and gently with water for 15-20 ses, if present, after the first 5 doctor immediately for treatment eye.

Ciba Corporation

**Plastics Additives** 

ACCEPTED with COMMENTS in EPA Letter Dated:

# SEP 2 1 2010

inder the Federal Insecticide, Fungicide, and Rodenticide Act a. emended, for the pesticide, registered under EPA Reg. No. 408/0-18



#### **Technical Bulletin**

# Irgaguard® B5000

#### EPA Reg. 40810-18

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

### For Manufacturing/Fabrication Use Only

IRGAGUARD<sup>®</sup> 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<sup>®</sup> B5000 suppresses the growth of bacteria, algae, fungus, mold and mildew which cause unpleasant odors, discoloration, staining, deterioration or corrosion of those manufactured products.

Finished products containing IRGAGUARD<sup>®</sup> 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 bacteria, viruses, germs or other disease causing organisms.

IRGAGUARD<sup>®</sup> 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 Ciba Corporation to determine the appropriate amount of IRGAGUARD<sup>®</sup> 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 Ciba Specialty Chemicals 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.

### NON-FOOD CONTACT USES: APPLICATIONS AND TYPES OF MATERIALS

TYPES OF FINISHED PRODUCTS	
Appliances and equipment	Mats
Automobile parts	Mops
Brush bristles	Non-woven fabrics
Brush handles	Plastic film
Building materials (such as hardware, handles)	Plumbing supplies and fixtures (including toilet bowl seats)
-	Protective covers
	Shower curtains
-	Siding for housing
Flooring	Sinks
Footwear (including boots, sports	Sponges Tape
	Tiles
	Tubing
	Vacuum cleaner bags
	Waste containers
Insulators	waste containers
Kitchen and bathroom hardware	
Liners	
TYPES OF FINISHED PRODUCTS	8
and hosiery, caps, undergarment	ts, inner liners for jackets, trim for
	Appliances and equipment Automobile parts Brush bristles Brush handles Building materials (such as hardware, handles) Conveyor belts Countertops Floor coverings Flooring Footwear (including boots, sports equipment and tools) Gaskets General purpose containers Indoor and outdoor furniture Insulation for wire and cable Insulators Kitchen and bathroom hardware Liners TYPES OF FINISHED PRODUCTS Apparel (such as umbrellas, outerw and hosiery, caps, undergarment outerwear and garments, uniform

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)

ACCEPTED with COMMENTS in EPA Letter Dated: SEP 2 1 2010

Finder the Federal Insecticide, Pungicide, and Rodenticide Act a. Amended, for the pesticide, registered under EPA Reg. No 40810 -1 \$

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	
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 Sealants for pipes Showers Wood Wood and plastic composites	ACCEPTED with COMMENTS in EPA Letter Dated: SEP 2 1 2010 Inder the Federal Insecticade, Pungicide, and Rodenticide Act a. amended, for the pesticide, registered under EPA Reg. No. 40\$10-18

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

APPLICATION	TYPES OF FINISHED PRODUCTS	
Heating, Ventilation and Air Conditioning (HVAC)		

#### 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	<b>TYPES OF FINISHED PRODUCT</b>	S
Plastics Including films, sheets, slabs, and molded plastic parts	Appliances and equipment Beverage dispensing equipment Beverage processing 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

ACCEPTED with COMMENTS in EPA Letter Date 2010 SEP 21

inder the Federal Insecticide, Fungicide, and Rodenticide Acta. emended, for the pesticide, registered under EPA Reg. No. 40810-18

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 Appliances and equipment
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	1.12
	Cardboard	
	Ceramic tile	
	Grout and joint compound	
	Paper	
	Pipe sealant and insulating materials	
	Plastic	
	Plumbing adhesives	
	Rubber	
	Sealants for pipes	
	Wood	
	Wood and plastic composites	
	SCOTD''LL	

ACCEPTED with COMMENTS in EPA Letter Dated: SEP 2 1 2010

Ander the Federal Insecticide, Pungicide, and Rodenticide Act a. emended, for the pesticide, registered under EPA Reg. No 40810 - 18

Page 5 of 6

#### 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

ACCEPTED with COMMENTS in EPA Letter Dated:

SEP 21 2010

Inder the Federal Insecticide, Fungicide, and Rodenticide Act a. emended, for the pesticide, registered under EPA Reg. No

40810-18