JUN 0 8 2005

Connie Welch Agent for Ciba Specialty Chemicals Corporation c/o ChemReg International 1990 Old Bridge Road, Suite 201 Lake Ridge, VA 22192

Subject:

Irgaguard B 5000

EPA Reg. No. 40810-18

Your Amendment Dated 6/2/03

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 to HVAC and indirect human drinking water contact uses, is acceptable under a time-limited restriction with the following conditions.

The primary basis for granting a conditional time-limited approval at this time is the recent FDA indirect food contact approval (FDA Notification #193; product must be first incorporated into food contact approved FDA polymers). The FDA approval can be read at www.cfsan.fda.gov/.

1. The following outstanding data for both silver and zinc must be submitted and found acceptable by 6/8/06. For guidance on the correct test substance to use for satisfying these data requirements, contact the Agency.

870.3150 Subchronic oral toxicity (90 day feeding, non-rodent) 870.3800 Two generation reproduction and fertility effects, rat

- 2. All the indirect food/drinking water, and HVAC uses listed on the proposed draft label dated 5/20/03 have a time-limited approval which automatically expires on 6/8/06.
- 3. If the outstanding data listed above is fully satisfied by 6/8/06, 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.
- 4. 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.

5. All subsequent amendments that are approved for this product will also be time-limited to expire on 6/8/06.

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 Tony Kish at 703-308-9443.

Sincerely,

Marshall Swindell,

Product Manager Team 33,

Regulatory Management Branch I Antimicrobials Division (7510C)

IRGAGUARD® B5000

Silver-Zinc Zeolite

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

Active ingredient:	
Silver (as elemental)	0.44%
Zinc (as elemental)	
Other ingredients	
Total	

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID: Have the product container or label with you when calling a 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, then continue rinsing eye Call a poison control center or doctor for treatment advice

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-873-1138

EPA Establishment No. 70404-AL-002

EPA Registration No. 40810-18

Net Weight

Lot No.

Ciba Specialty Chemicals Corp. Plastic Additives 540 White Plains Road Tarrytown, NY 10591

ACCEPTED with COMMENTS in EPA Letter Dated:

JUN 0 8 2005

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

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

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

ACCEPTE

with COMMENTS in EPA Letter Dated:

DIRECTIONS FOR USE

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

See Technical Bulletin for detailed use information

JUN 0 8 2005 Under the Federal Insecticide, Fungicide, and Federaldide Act as amended, for the posticide,

registered undo: EPE Reg. No. 4 4 8 10 - 18

Only for manufacture of or fabrication into antimicrobial pesticides for 1) the uses listed on this label and technical bulletin; 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.

IRGAGUARD [®] B5000 is an antimicrobial powder for the manufacture 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 Irgaguard® B5000 during the manufacturing process to impart antimicrobial activity to the manufactured products. IRGAGUARD 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 ® 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 ® B5000 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 Specialty Chemicals Corporation to determine the appropriate amount of IRGAGUARD ® B5000 for individual finished products.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically 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 EPA.

STORAGE AND DISPOSAL

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

Pesticide Storage: Do not store in areas accessible to children. Keep away from direct sunlight.

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

Container Disposal: Completely empty bags into processing equipment where the pesticide is used. Then dispose of empty bag and box in sanitary landfill or by incineration, if allowed by state and local authorities.

IRGAGUARD® is a trademark of Ciba Specialty Chemicals Corporation

Revisions, NOT EPA APPROVED 5-20-2003

Ciba Specialty Chemicals Corporation

Plastics Additives



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® 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 bacteria, 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 bacteria, 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 Ciba Specialty Chemicals 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 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.

ACCEFTED
with COMMENTS
in EFA Lotter Dated:

JUN 0 8 2005
Under the Federal Insecticide,
Fungicide, and Redenteide Act as
amended, for the posticide,
registered under EPA Reg. No.
4 6 8 10 - 18

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	Sponges
	equipment and tools)	Tape
	Gaskets	Tiles
	General purpose containers	Tubing
	Indoor and outdoor furniture	Vacuum cleaner bags
	Insulation for wire and cable	Waste containers
	Insulators	
·	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)

ACCEPTED
with COMMENTS
in EPA Lotte: Dated:

JUN 0 8 2005

Under the Federal Insecucide.
Pungicide, and Rodenzoide Act as amended, for the pesticide, registered under EPA Reg. No.

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
1	Cardboard
	Ceramic tile
]	Construction materials
	Glazing for windows
1	Grout and joint compound
1	Paper
	Pipe sealant and insulating materials
	Plastic
1	Plumbing adhesives
	Rubber
)	Sealants for pipes
	Showers
	Wood
	Wood and plastic composites

APPLICATION	TYPES OF FINISHED PRODUCTS		
Miscellaneous applications	Cat litter		-
	Drainage and sewage pipe		
	Flooring		<i>us</i> :.
	Plaster		6+6-
	Sinks		5036 6 8 5
	Stucco		
	Tile	₹. \$. a	Ĺ
<u> </u>	Toilets	r	4 + 4 4

with COME FINTS in EPA Letter Detect

JUN 0 8 2005

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

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 Beverage processing equipment Bottles Brush bristles Brush handles Containers Conveyor belts Countertops Food handling 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 Lens. Dated:

JUN 0 8 2005

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

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	
	Plumbing adhesives	
	Rubber	,
	Sealants for pipes	
	Wood	2000
	Wood and plastic composites	7 4 1 1

JUN 0 8 2005

Under the Foders, Indecidide, Functions, and And Indicide Act as amended in. Indicide, registered units, ITF Fod Mo

DRINKING WATER CONTACT USES

Iraguard 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

Revisions, NOT EPA APPROVED 5-20-2003

ACCEPTED
with COMMENTS
in EPA Least Dated:

JUN 0 8 2005

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