

DEC 19 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460United States
Environmental Protection
AgencyOffice of Pesticide Programs

Research International
c/o Ishizuka Glass Co., Ltd
P. O. Box 15125

Attention: V. Goncarovs

Subject: IONPURE WPA
EPA Registration No. 73148-1
Amendment Dated November 16, 2007

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

- Minor Labeling Changes

A copy of the stamped "accepted" labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Martha L. Terry at (703) 308-6217.

Sincerely

Marshall Swindell
Product Manager (33)
Regulatory Management Branch 1
Antimicrobials Division (7510P)

[FRONT OF BAG/BOX]

IONPURE WPA

Silver-Glass

IONPURE WPA is an antimicrobial powder for commercial and industrial use designed to be incorporated into various materials during varying stages of the manufacturing process to preserve the integrity of the manufactured materials. A preservative for use in the manufacture of plastic films, interior and exterior paint, paper coatings, adhesives, and synthetic fibers. For more details of the various materials refer to the supplemental labeling for uses of IONPURE WPA. Not for use in food grade paper, paperboard product, paper coatings, and adhesives.

ACTIVE INGREDIENT:

Silver* as elemental.....	1.6%
OTHER INGREDIENTS.....	98.4%
TOTAL.....	100.0%

ACCEPTED
with COMMENTS
EPA Letter Dated:

DEC 19 2007

*from silver-magnesium-aluminum phosphate complex

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

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

~~73148-1~~ 73148-1

FIRST AID	
<i>If swallowed:</i>	<ul style="list-style-type: none"> • Call a 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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
<i>If on skin or clothing:</i>	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
<i>If in eyes:</i>	<ul style="list-style-type: none"> • 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.
HOT LINE NUMBER	
For medical questions, emergencies or accidents involving this product call: 1-800-452-7165. Have the product container or label with you when calling a poison control center or doctor.	

**PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Avoid contamination of cooking utensils and food preparation surfaces.

[FRONT OF BAG/BOX] - continued

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.

STORAGE AND DISPOSAL

STORAGE: Do not store in areas accessible to children. Do not store in places where food or feed may come in contact with the product. Keep away from direct sunlight or humidity. Do not contaminate water, food or feed by storage or disposal. **PESTICIDE DISPOSAL:** Unused material should be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Empty container thoroughly and rinse with water. Dispose in regular trash collection.

Manufactured by:
Ishizuka Glass Co. Ltd.
11-15, Takatsuji-cho, Showa-ku
Nagoya, Japan
Telephone: 011 (81) 52-871-3329

EPA Reg. No. 73148-1
EPA Est. No. 73148-JPN-001

NET CONTENTS: _____

ACCEPTED
with COMMENTS
EPA Letter Dated:

DEC 19 2007

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

73148-1

[BACK OF BAG]

DIRECTIONS FOR USE

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

Blending and Formulating Instructions for the Listed Materials

IONPURE WPA is a silver glass-antimicrobial powder designed to be incorporated into various materials at various stages of their manufacturing process to preserve the integrity of the manufactured materials. The powder can be incorporated into the materials as an integral part of the finished products throughout their entire thickness, or as a film over the surfaces of the manufactured materials, depending on the particular method of manufacture of the finished materials and needs of the manufacturer.

IONPURE WPA may be incorporated into the following materials at the specified Maximum Concentrations (MC) on a dry weight basis of finished products, or on a weight by weight basis for liquid products such as paints.

	APPLICATION	MC
Plastics and Films	non food use only and no water pipes polyethylene, polypropylene, polyvinyl chloride, polyacetate, and polyester	6.0 %
Paint	Water base and solvent base interior and exterior	1.5%
Paper coating	non food packaging paper, no food contact, not for paper production use	1.5%
Adhesive	non food contact: plywood adhesives	2.0%
Fibers	polyester, nylon, polypropylene, acrylic and rayon	2.0%
Textile Finishing		0.75%
Coatings including water-borne, solvent-borne, liquid powder and 100% solids coatings for interior and exterior uses.		
	non-food packaging paper products, natural and synthetic fibers and fabrics, metals, plastics, laminates, composite and building materials, barrier fabrics, furniture, automotive and vehicular parts, glazing materials, and HVAC systems	1.5%

For details in blending IONPURE WPA with these materials
refer to supplemental labeling

ACCEPTED
with COMMENTS
EPA Letter Dated:
DEC 19 2007

\\clients\shizuka\exterior paint & coatings\proposed label 27 Jun 2006

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

73148-1

SUPPLEMENTAL LABELING

Claims: IONPURE WPA is to be incorporated into the following materials at suitable stages of the manufacturing process to preserve the integrity of the manufactured/treated materials, and thus make them suppress the growth of bacteria and mold. Not for use in food grade paper, paperboard product, paper coatings, and adhesives.

Plastics & films	<p><i>Use:</i> non food use only, no food contact and no water pipes <i>Polymers:</i> polyester, polyamide, polypropylene, polyethylene, polysiloxane, polyethylene copolymer, polyvinyl alcohol, epoxy resin, phenol resin, polycarbonate, cellulose acetate, polystyrene, polyurethane, acrylic resin, methyl methacrylate, acrylonitrile butadiene styrene copolymer, etc. <i>Products:</i> gloves, shower curtains, cable wraps, protective covers, foam containers, brush handles, sponges, insulators, gaskets, tubings, containers, films, furnitures, etc.</p>
Paint	<p><i>Use:</i> interior and exterior paints <i>Type:</i> water based or solvent based paint</p>
Paper coating	<p><i>Use:</i> non food packaging paper, no food contact, and not for paper production use <i>Type:</i> cellulosic, synthetic, specialty, reinforced papers, etc. <i>Products:</i> wallpaper, wiping towels, book covers, corrugated paper filters, etc.</p>
Adhesive	<p><i>Use:</i> not for adhesives for paper or containers that will come in contact with food <i>Products:</i> adhesives for plywood manufacture, adhesive for cement tile and sealants, etc.</p>
Fibers	<p><i>Polymers:</i> polyester, polypropylene, nylon, polyethylene, acrylic, rayon, etc. <i>Products for home furnishings:</i> mattress cover pads, sheets, blankets, quilts and pillow fiber fill, curtains and draperies, carpet and its underlay, upholstery, wiping cloths, towels, bags, wallcover fabrics, cushion pads, etc. <i>Products for apparel:</i> interlinings, industrial uniforms, coats and aprons, sportswear, sleepwear, stockings, socks, helmets, caps, gloves, etc. <i>Products for industrial:</i> brush bristles, shoe linings, artificial leather, filter, book covers, sail cloth, ropes, etc.</p>
Textile Finishing	<p><i>Products:</i> various surface resin coating textiles</p>
<p>Coatings including water-borne, solvent-borne, liquid powder and 100% solids coatings for interior and exterior uses.</p>	
	<p><i>Use:</i> not for food contact surfaces contacting drinking water <i>Products including (but not limited to):</i> non-food packaging, paper products, natural and synthetic fibers and fabrics, sinks, countertops, general purpose containers, collection and storage equipment, appliances, building materials, and components equipment (including walls, hardware, floors, ceilings and components thereof for kitchen, commercial and industrial application), wallboard, flooring materials, concrete, siding, roofing, shingles, industrial equipment, metals, plastics, furniture, automotive and vehicular parts, barrier fabrics and glazing materials, spas, bathtubs, showers, and filters and components thereof</p>
	<p><i>Use:</i> original equipment manufacturing of heating, ventilation and air conditioning (HVAC) equipment and related materials (including insulation, ducts, heat exchangers, drain pans, air filters, air purifiers, diffusers, and parts and components thereof)</p>
	<p><i>Use:</i> coatings used to upgrade non-residential heating ventilation and air conditioning equipment and related materials (including insulation, ducts, heat exchangers, drain pans, air filters, air purifiers, diffusers, and parts and components thereof)</p>

The purpose of incorporating IONPURE WPA in coatings intended for HVAC applications is to inhibit the growth of mold, mildew, fungus, and bacteria that cause odor, discoloration, staining, deterioration or corrosion on the coated surface. IONPURE WPA does not protect the underlying substrate and is not intended to inhibit growth of public-health related organisms.

J:\clients\ishizuka\exterior paint & coatings\proposed label 27 Jun 2006

ACCEPTED
 with COMMENTS
 EPA Letter Dated:

DEC 11 2007

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

73148-1

Silver Defender Corp

.....
1 Bridge Plaza N, Suite 275, Fort Lee, NJ 07024

Phone: 201- 351-0884

Fax: 201-608-7919

October 2, 2020

Re: Material Film Certification for Product SD 230505B

To whom it may concern,

An extensive search of all relevant documentation for all the components in the film has shown that all materials meet the requirements for polyolefin resins intended for food packaging applications as described in the FDA olefin polymer regulation 21 CFR 177.1520(c)2.2. These materials may be used in contact with all types of food as defined in Table 1, 21 CFR 176.170(c) and used under conditions B-H as defined in Table 2, 21 CFR 176.170 (c). Silver Defender Corp utilizes good manufacturing practices as outlined in 21 CFR 174.5. If you require further documentation please feel free to contact the Silver Defender Corp team for your needs.

Boris Karpman
Quality Manager
Silver Defender Corp
1 Bridge Plaza N, Ste. 275
Fort Lee, NJ 07024