



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

June 06, 2025

SENT BY EMAIL

Jaqueline Stewart
jstewart@delta-ac.com
ISHIZUKA GLASS CO., LTD.

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling and Formulation Amendment -
Minor label changes and silver reclassification
Product Name: IONPURE ZAF
Admin Number: 73148-2
EPA Receipt Date: 11/06/2024
Action Case Number: 00638246

Dear Jaqueline Stewart:

The amended label and Confidential Statements of Formula (CSFs) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. Pursuant to 40 CFR 156.10(a)(6) you must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSF(s):

- Basic CSF dated 12/13/2019
- Alternate CSF #1 dated 12/13/2019
- Alternate CSF #2 dated 12/13/2019

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA

section12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have questions, please contact Steven Snyderman via email at snyderman.steven@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Steven Snyderman". The script is fluid and cursive, with the first letters of each word being capitalized and larger than the rest of the letters.

Steven Snyderman, Product Manager, Team 33
RMB 2, AD
Office of Pesticide Programs

IONPURE ZAF

Active Ingredient:

Silver ion..... 0.42%

Other Ingredients..... 99.58%

Total..... 100.00%

IONPURE ZAF 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 paint, paper coatings, adhesives and synthetic fibers. For more details of the various materials, refer to the IONPURE ZAF use tables. Not for use in food grade paper, paperboard product, paper coatings, and adhesives

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

If swallowed:	<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
If on skin or clothing:	<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.
If in eyes:	<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

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical questions, emergencies or accidents involving this product, call the poison control center at 1-800-222-1222. For general information on this product contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at <http://npic.orst.edu>.

Manufactured by:

Ishizuka Glass Co. Ltd.
1880 Kawai-cho, Iwakura City
Aichi, Japan
Telephone: (+81) 587 37 3251
Email: ceramics@ishizuka.co.jp
Website: <https://www.ishizuka.co.jp/english/>

ACCEPTED

06/06/2025

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

73148-2

EPA Reg. No. 73148-2

EPA Est. No. 73148-JPN-001

NET WEIGHT:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

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 Pollution 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

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

PESTICIDE 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. In case of spill, collect material and dispose of it as specified below. **PESTICIDE DISPOSAL:** Unused materials should be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Non refillable container. Do not reuse or refill this container. Empty bag completely into processing equipment then offer empty bag and outer cardboard box for recycling, if available, or dispose of in a sanitary landfill or by incineration.

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 ZAF is an 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 upon the particular method of manufacture of the finished materials and needs of the manufacturer.

IONPURE ZAF 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.

APPLICATIONS AND TYPES OF MATERIALS

Non-Food Contact Uses for IONPURE ZAF

IONPURE ZAF is to be incorporated into the following materials suitable stages of the manufacturing process to preserve the integrity of the manufactured/treated materials and suppress the growth of bacteria and mold in/on manufactured/treated materials.

Non-food uses only. Not for use in food grade paper, packaging paper, containers, paperboard products, paper coatings, and adhesives that will come in contact with food. No food contact. No water pipe use.

IONPURE ZAF

Non-Food Contact Uses continued

Application	Types of Finished Products	MC
Plastics , including films, sheets, slabs, and molded plastic parts Polymers including 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.	Gloves, shower curtains, cable wraps, protective covers, foam containers, brush handles, insulators, gaskets, tubings, containers, films, furnitures, Polyurethane foam (such as mop heads, mattresses, mattress pads, pillows, sponges, shoe soles) etc.	5.0%
Paint – Indoor use only	Water-based paint, solvent-based paint	5.0%
Paper coatings – Cellulosic, synthetic, specialty, reinforced papers, etc. Not for paper production use.	Wallpaper, wiping towels, book covers, corrugated paper filters, etc.	5.0%
Adhesives	Adhesives for plywood manufacture, adhesive for cement tile and sealants, etc.	7.5%
Fibers – polyester, polypropylene, nylon, polyethylene, acrylic, rayon, etc.	Home furnishings, including mattress cover pads, sheets, blankets, quilt and pillow fiber fill, curtain and drapery, carpet and its underlay, upholstery, wiping cloth, towels, bags, wall cover fabrics, cushion pads, etc. Apparel, including inner lining, industrial uniforms, coats and aprons, sportswear, sleepwear, stockings, socks, helmets, caps, gloves, etc. Industrial products, including brush bristles, shoe linings, artificial leather, filters, book covers, sail cloth, ropes, sponges etc.	7.5%
Textile Finishing	Various surface resin coatings	2.5%

Protection of Finished Products and Intermediate Concentrates

It is possible to apply IONPURE ZAF in intermediate concentrations which will be further processed to produce finished products and formulations. It can be used in intermediate concentrations up to 50% by weight (500 lbs. of product per 1000 lbs. (i.e., as a master batch)) in substrates intended for further processing in an industrial environment into the finished products and formulations listed above. This rate applies only to intermediate manufacturing/industrial uses. Anything created with the intermediate concentrates must not exceed the label application rates.