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3/14/2014

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

MAR 14 2014

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Abigail Downs
Agent for Sinanen Zeomic Company, Ltd
Technology Sciences Group, Inc.
1150 18th Street, N.W., Suite 1000
Washington, District of Columbia 20036

Subject: Update Basic CSF and Label
EPA Reg. No. 71227-5
Amendment Letter dated December 19, 2013

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. The Agency finds the basic CSF dated March 10, 2014 and label changes to be acceptable.

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. You must submit one (1) 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.

If you have any questions concerning this letter, please contact Elizabeth Watkins at (703) 347-0241.

Sincerely,

A handwritten signature in cursive that reads "Elizabeth H. Watkins for".

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

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ACCEPTED
03/14/2014
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 71227-5

**Zeomic® Type AW
Silver Zeolite A**

A preservative and bacteriostatic agent for use in the manufacture of polymer, plastic and latex products.
For commercial and industrial use.

Active Ingredient:

Silver	0.59 %
Other Ingredients	99.41 %
Total	100.00 %

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

SEE INSERT LABEL FOR PRECAUTIONARY STATEMENTS

Manufactured by: Sinanen Zeomic Company, Ltd. Nakagawa-honmachi, Minato-ku Nagoya, Japan 455-0051	EPA Registration No. 71227-5 EPA Establishment No. 71227-JPN-001
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Net Wt. XXXX

Lot No. XXXXXXXXXX



Standard 51 Listed

Directions for Use

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

For all uses listed*:

- * Do not incorporate this product into any food contact polymer unless the subject food contact polymer is approved and listed in 21 CFR, Parts 174 through 186 (inclusive), or in the United States Food and Drug Administration's "Food Contact Substance Notification System." Any incorporation of this product into an approved and listed food contact polymer must comply with the specific use conditions listed in 21 CFR, Parts 174 through 186 (inclusive), or in the United States Food and Drug Administration's "Food Contact Substance Notification System," for such food contact polymer. Any incorporation of this product into any food contact substance (including but not limited to non-polymer substances) other than an approved and listed food contact polymer is prohibited.
- * This product may be used for the following human drinking water contact uses:
 - water filter components and housing units
 - water bottle dispensers and components
 - water dispensers
 - ice machine trays
 - ice machine bins
 - ice machine water hoses
 - ice dispensers and other ice machine components
 - water bottles
 - cups
 - water storage vessels
- * This product may be incorporated into food 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.

Zeomic® Type AW Silver Zeolite A is an antimicrobial additive to be used by compounding into many polymeric materials. It is designed to be incorporated during the manufacturing process to impart antimicrobial activity to the manufactured products. *Zeomic® Type AW Silver Zeolite A* suppresses the growth of algae, mold, mildew, fungi and bacteria which cause unpleasant odors, discoloration, staining, deterioration or corrosion only. No finished product incorporating *Zeomic® Type AW Silver Zeolite A* may make any public health claims relating to antimicrobial activity without first obtaining an EPA registration or FDA Clearance for the finished product which permits such claims, and without a tolerance or exemption from the requirement of a tolerance. When incorporated into treated articles, this product does not protect users of any such treated article or others against food borne or disease causing bacteria, viruses, germs or other disease causing organisms.

Types of Finished Products

Plastics - including films, sheets, slabs, and molded plastic parts

The additive may be incorporated into the finished product at up to 20.0% by weight or at least 0.1% for bulk plastics. Contact Sinanen Zeomic Company Ltd. to determine the appropriate amount of Zeomic® Type AW Silver Zeolite A for individual finished products.

Food contact* and non-food contact uses:

packaging	cutting boards
gaskets	countertops
general purpose containers	sinks
food and drink containers	tiles
food trays and covers	dishes
sponges	cups
plastic film	bottles
food wrap (including coated deli paper, coated meat interleavers and plastic wrap)	conveyor belts
tubing	food processing equipment (including slicers, formers, juicers, washers, canners, freezers, refrigerators,
brush bristles (including personal care grooming items, toothbrushes (Claims allowed: <i>odor, discoloration, staining</i>) and cosmetic brushes)	shelving, cookers, grinders, choppers, peelers and countertops)
liners	beverage processing equipment (including mixers, transfer equipment, pumps, bottlers, canners,
non-woven fabrics	dispensers and fermenters)
appliances and equipment	garbage bags and garbage cans
kitchen and food processing utensils and supplies	

Non-food contact uses only:

automobile parts	keyboards, mice, scanners, and printers).
shower curtains	medical devices, equipment and supplies
mats	siding for housing
protective covers	kitchen and bathroom hardware
tape	flooring
waste containers	floor coverings
brush handles	footwear (including boots, sports equipment and tools)
mops	insulation for wire and cable
vacuum cleaner bags	insulators
plumbing supplies and fixtures (including toilet bowl seats)	indoor and outdoor furniture
office equipment and supplies (including binders, filing and storage systems, pens, pencils, markers, printers, facsimile machines, desk accessories, computers,	Telephones, mobile devices, head phones, head sets and accessories
	Cameras and imaging equipment
	Electrical wiring devices and wall plates

Fibers

The additive may be incorporated into the finished product at up to 20.0% by weight or at least 0.1% for fibers. Contact Sinanen Zeomic Company Ltd. to determine the appropriate amount of Zeomic® Type AW Silver Zeolite A for individual finished products.

Food contact* and non-food contact uses (in all cases, when the article itself is an approved polymer, or as an approved polymer coating on an article):

- napkins, tablecloths and wiping cloths
- bags
- brush bristles (including personal care grooming items, toothbrushes (Claims allowed: *odor, discoloration, staining*) and cosmetic brushes)
- filters
- clothing apparel (including uniforms, outerwear, gloves, aprons, coats and shoes)
- sponges
- packaging (including bags, sacks, wraps, cushion and absorbent materials, and containers)
- conveyor belts
- kitchen, commercial and industrial wipes and fabrics

Non-food contact uses only (in all cases, when the article itself is an approved polymer, or as an approved polymer coating on an article):

- | | |
|--|---|
| <p><i>Interior furnishings -</i></p> <ul style="list-style-type: none"> mattress cover pads and filling pillow covers sheets blankets fiberfill for quilts and pillows curtains draperies carpet and carpet underlay rugs upholstery mops towels wall covering fabrics cushion pads sleeping bags <p><i>Apparel -</i></p> <ul style="list-style-type: none"> umbrellas outerwear sportswear sleepwear stockings socks and hosiery | <ul style="list-style-type: none"> caps undergarments inner liners for jackets trim for outerwear and garments <p><i>Transportation -</i></p> <ul style="list-style-type: none"> automotive and truck upholstery carpeting rear decks trunk liners convertible tops interior liners <p><i>Industrial and Other Household Items -</i></p> <ul style="list-style-type: none"> artificial leather filters book covers mops cloth for sails ropes tents and other outdoor equipment tarps awnings medical devices, equipment and supplies |
|--|---|

Coatings, Films and Laminates

The additive may be incorporated into the finished product at up to 30.0% by weight, or at least 0.05% for paper or 0.1% for bulk plastics. Contact Sinanen Zeomic Company Ltd. to determine the appropriate amount of Zeomic® Type AW Silver Zeolite A for individual finished products. Types of coatings include water-borne, solvent-borne, 100% solids, radiation cure, liquid and powder, emulsion, starch, cellulosic, lacquer, thermoset, thermoplastic, thermal spray coatings including pre-dispersions and components thereof.

Food contact* and non-food contact uses (in all cases, as an approved polymer coating for the article):

packaging	conveyor belts, piping systems, silos, tanks and process vessels)
paper products (including wipes and tissues)	appliances and food processing equipment (including slicers, formers, juicers, washers, canners, freezers, refrigerators, shelving, cookers, grinders, choppers, peelers and countertops)
food wrap (including coated deli paper, coated meat interleavers and plastic wrap)	beverage processing equipment (including mixers, transfer equipment, pumps, bottlers, canners and fermenters and dispensers)
natural and synthetic fibers and fabrics	building materials and components (including walls, hardware, floors, ceilings and components thereof for kitchen, commercial and industrial applications)
sinks	
countertops	
cutting boards	
dishes	
cookware	
general purpose containers	
kitchen, commercial and industrial utensils and supplies	
collection and storage equipment (including	

Non-food contact uses only (in all cases, as an approved polymer coating for the article):

walls	glazing for cement tile
wallboard	glazing for vitreous china used in plumbing fixtures (including toilets, sinks, countertops)
floors	medical devices, equipment and supplies
concrete	office equipment and supplies (including binders, filing and storage systems, pens, pencils, markers, printers, facsimile machines, desk accessories, computers, keyboards, mice scanners, and printers).
siding	Telephones, mobile devices, headphones, head sets and accessories
roofing	Cameras and imaging equipment
shingles	Electrical wiring devices and wall plates
industrial equipment	
furniture	
automotive and vehicular parts	
packaging	
paper products (including wall coverings, towels, book covers)	
barrier fabrics	

Adhesives and Sealants

The additive may be incorporated into the finished product at up to 20.0% by weight, or at least 0.05% for paper or 0.1% for bulk plastics. Contact Sinanen Zeomic Company Ltd. to determine the appropriate amount of Zeomic® Type AW Silver Zeolite A for individual finished products.

Food contact* and non-food contact uses (in all cases, when used in approved polymers incorporated into adhesives or sealants):

plumbing adhesives
pipe sealants and insulating materials
grout and joint compound for; countertops, architectural elements and food and beverage related equipment

Non-food contact uses only:

adhesives used in the manufacture of wood and plastic composites
adhesives for ceramic tile, wood, paper, cardboard, rubber and plastic
glazing for windows
grout
sealants for pipes
adhesives, sealants and insulating materials for; appliances, bathrooms, showers, kitchens and construction
medical devices, equipment and supplies

Miscellaneous Applications

The additive may be incorporated into the finished product at up to 20% by weight. Contact Sinanen Zeomic Company Ltd. to determine the appropriate amount of Zeomic® Type AW Silver Zeolite A for individual finished products.

Non-food contact uses only:

toilets
sinks
tile
flooring
stucco
plaster
cat litter
drainage and sewerage pipe
interior paints and coatings

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals. CAUTION: Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wear goggles or face shield and rubber gloves when handling the dry powder. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

FIRST AID	
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 inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further 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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	

Storage and Disposal

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

Pesticide Storage: Do not store in areas accessible to children. Keep product dry and containers covered during storage; store below 130°F.

Container Disposal: Nonrefillable container. Do not reuse or refill inner plastic bag or outer steel can. **Inner Plastic Bag:** Completely empty plastic bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. **Outer Steel Can:** Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

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