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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JUN 15 2010

Sinanen Co., Ltd. 4-27, Kaigan 1-Chome, Minato-ku Tokyo 105, Japan

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

U.S. Agent: 1150 18th Street, NW Suite 1000 Washington, DC 20036

Attention: Erin M. Tesch Regulatory Consultant

Subject: Zeomic Type AJ Silver Zeolite A EPA Reg. No. 71227-1 Amendment Dated May 25, 2010

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. The Agency approves the following:

- Revision of the minimum loading rate of Zeomic Type AJ Silver Zeolite A in bulk polymers and fiber, and;
- Inclusion of Electrical wiring devices and wall plates as a non-food contact use only.
- A stamped copy of the accepted labeling is enclosed. Submit three copies of your final printed labeling to the Agency before distributing or selling the product bearing the revised labeling.

The submitted efficacy data showing reduction against public health bacterial pathogens was not reviewed as you did not add this claim to the label and the test protocol has not been previously approved by the Agency.

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)

Zeomic[®] Type AJ Silver Zeolite A

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

Active Ingredient:

Silver	2.5 %
Other Ingredients	97.5 %
Total	100.0 %

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE INSERT LABEL FOR PRECAUTIONARY STATEMENTS

Manufactured by: Sinanen Company, Ltd. 4-22, Kaigan 1-Chome, Minato-ku Tokyo 105, Japan EPA Registration No. 71227-1 EPA Establishment No. 71227-JP-001

Net Wt. XXXX

Lot No. XXXXXXXXXXX

ACCEPTED with COMMENTS EPA Letter Dated:

JUN 1 5 2010

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended. for the pesticide, registered under EPA Reg. No. 7/ 327-1

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.
- * For applications involving direct or indirect food or human drinking water contact, Zeomic® Type AJ must be used with an FDA approved polymer or coating. Nonfood and non-drinking water contact applications can use either FDA or non-FDA approved coatings.
 - This product may be used for the following human drinking water contact uses: water filter components and housing units ACCEPTED water bottle dispensers and components with COMMENTS water dispensers EPA Letter Dated: ice machine travs JUN 1 5 2010 ice machine bins ice machine water hoses ice dispensers and other ice machine components.^{Under the Federal Insecticide,} Fungicide, and Rodenticide Act as ice machine water hoses amended for the pesticide, cups registerea under EPA Reg. No. 7/827-1 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 AJ Silver Zeolite A is an antimicrobial additive to be used by compounding into many polymeric materials. It is designed to be incorporated during and after the manufacturing process to impart antimicrobial activity to the manufactured products. Approved post manufactured product upgrade applications are detailed in the label section titled "Coatings for Upgrade Applications." Zeomic® Type AJ 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 AJ Silver Zeolite A may make any public health claims relating to antimicrobial activity without first obtaining an EPA registration 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 5.0% by weight or at least 0.1% for bulk plastics. Contact Sinanen Company Ltd. to determine the appropriate amount of Zeomic® Type AJ Silver Zeolite A for individual finished products.

Food contact* and non-food contact uses (in all food contact cases, when the article itself is a FDAapproved polymer):

packaging gaskets general purpose containers food and drink containers food trays and covers sponges plastic film food wrap (including coated deli paper, coated meat interleavers and plastic wrap) tubing brush bristles (including personal care grooming items, toothbrushes (Claims allowed: odor, discoloration, staining), and cosmetic brushes (Claims allowed: odor, discoloration, staining)) ACCEPTED with COMMENTS liners EPA Letter Dated: non-woven fabrics appliances and equipment kitchen and food processing utensils and supplies JUN 1 5 2010 cutting boards countertops Under the Federal Insecticide, sinks Fungicide, and Rodenticide Act as tiles amended. for the pesticide, dishes registered under EPA Reg. No. 7/237-/ cups bottles conveyor belts food processing equipment (including slicers, formers, juicers, washers, canners, freezers, refrigerators, shelving, cookers, grinders, choppers, peelers and countertops) beverage processing equipment (including mixers, transfer equipment, pumps, bottlers, canners, dispensers and fermenters) garbage bags and garbage cans Non-food contact uses only: automobile parts siding for housing shower curtains kitchen and bathroom hardware flooring mats protective covers floor coverings footwear (including boots, sports equiptape waste containers ment and tools) insulation for wire and cable brush handles insulators mops indoor and outdoor furniture vacuum cleaner bags plumbing supplies and fixtures (including toilet bowl seats) toys (Claims allowed: odor, discoloration, staining, drain pan liners¹ deterioration) office equipment and supplies (including binders, filing and spas, bathtubs, showers and filters and storage systems, pens, pencils, markers, printers, facsimile components thereof machines, desk accessories, computers, keyboards, mice, Telephones, mobile devices, head phones, headsets

¹ For HVAC and related uses, refer to Zeomic® AJ Technical Bulletin No. 1 – Technical Bulletin for Zeomic® Type AJ Silver Zeolite A

scanners, and printers)
personal care items (including grooming items, toothbrushes
 (Claims allowed: odor, discoloration, staining), sports and
dental mouthguards (Claims allowed: odor, discoloration, staining))

Polymeric Coating for Heating, Ventilation and Air Conditioning Applications.

Zeomic® Type AJ Silver Zeolite A (EPA Reg. No. 71227-1) Amendment to revise directions for use – version (34) dated May 25, 2010 Page 3 of 8

Cameras and imaging equipment

Electrical wiring devices and wall plates

and accessories

Fibers

The additive may be incorporated into the finished product at up to 5.0% by weight or at least 0.1% for fibers. Contact Sinanen Company Ltd. to determine the appropriate amount of Zeomic® Type AJ Silver Zeolite A for individual finished products.

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

hapkins, tablecloths and wiping cloths

bags

brush bristles (including personal care grooming items, toothbrushes (Claims allowed: *odor, discoloration, staining*), and cosmetic brushes (Claims allowed: *odor, discoloration, staining*))

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:

Interior furnishings mattress cover pads and filling pillow covers sheets blankets fiberfill for guilts and pillows curtains draperies carpet and carpet underlay rugs upholstery mops towels wall covering fabrics cushion pads sleeping bags

Apparel – umbrellas outerwear sportswear sleepwear stockings socks and hosiery caps undergarments inner liners for jackets trim for outerwear and garments Transportation – automotive and truck upholstery carpeting rear decks trunk liners convertible tops interior liners

Industrial and Other Household Items artificial leather filters book covers mops cloth for sails ropes tents and other outdoor equipment tarps awnings drain pan liners¹

ACCEPTED with COMMENTS EPA Letter Dated:

JUN 1 5 2010

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide, registered under EPA Reg. No. 7/227-/

¹ For HVAC and related uses, refer to Zeomic® AJ Technical Bulletin No. 1 – Technical Bulletin for Zeomic® Type AJ Silver Zeolite A Polymeric Coating for Heating, Ventilation and Air Conditioning Applications.

Coatings, Films and Laminates

The additive may be incorporated into the coating, film or laminate applied to the finished product at up to 5.0% by weight, or at least 0.05% for paper or 0.1% for bulk plastics. Contact Sinanen Company Ltd. to determine the appropriate amount of Zeomic® Type AJ Silver Zeolite A for individual finished products. Types of coatings include water-borne, solvent-borne, 100% solids, radiation cure, liquid and powder.

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

paper products (including wipes and tissues)

food wrap (including coated deli paper, coated meat interleavers and plastic wrap) natural and synthetic fibers and fabrics

sinks

countertops

cutting boards

dishes

cookware

general purpose containers

kitchen, commercial and industrial utensils and supplies

collection and storage equipment (including conveyor belts, piping systems, silos, tanks and process vessels)

appliances and food processing equipment (including slicers, formers, juicers, washers, canners, freezers, refrigerators, shelving, cookers, grinders, choppers, peelers and countertops)

beverage processing equipment (including mixers, transfer equipment, pumps, bottlers, canners and fermenters and dispensers)

building materials and components (including walls, hardware, floors, ceilings and components thereof for kitchen, commercial and industrial applications)

Non-food contact uses only:

ACCEPTED with COMMENTS EPA Letter Dated:

JUN 1 5 2010

Under the Federal Insecticide, Fungicide. and Rodenticide Act as amenaed. for the pesticide, registered under EPA Reg. No. 7/337-/

furniture automotive and vehicular parts

packaging

walls

floors concrete

siding roofing

shingles

wallboard

paper products (including wall coverings, towels, book covers)

barrier fabrics

glazing for cement tile

industrial equipment

glazing for vitreous china used in plumbing fixtures (including toilets, sinks, countertops) 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)¹ spas, bathtubs, showers, and filters and components thereof Electrical wiring devices and wall plates

¹ For HVAC and related uses, refer to Zeomic® AJ Technical Bulletin No. 1 – Technical Bulletin for Zeomic® Type AJ Silver Zeolite A Polymeric Coating for Heating, Ventilation and Air Conditioning Applications.

Coatings for Upgrade Applications

Upgrade Applications are defined as the incorporation of Zeomic into polymeric coatings that are applied to articles onsite (after the article has been manufactured and is in the place of use). Coatings may be used on articles that have not previously incorporated the antimicrobial compound. Zeomic may be incorporated into the finished coating at up to 5.0% by weight, or at least 0.1% of the coating. Types of coatings include waterborne coatings/adhesives, solvent borne coatings and two part reactive coatings consisting of a resin and curing agent. Upgrade Applications are for onsite application at Commercial, Industrial or Institutional Establishments. Unless otherwise specified in the technical bulletin, the coating is applied to the entire article. Contact Sinanen Company Ltd. or refer to Zeomic AJ Technical Bulletin No. 2 and No. 3 to determine the appropriate application technique and amount of Zeomic for individual products.

Food contact* and non-food contact articles (in all food contact cases, when the article itself is a FDA-approved polymer, or as a FDA-approved polymer coating on an article)²:

food collection, conveyance and storage equipment (including conveyor belts, silos, tanks and process vessels)

- appliances and food processing equipment (including slicers, formers, juicers, washers, canners, freezers, refrigerators, shelving, cookers, grinders, choppers, peelers, and countertops)
- beverage processing and ice machine equipment (including mixers, transfer equipment, pumps, bottlers, canners, fermenters and dispensers and other components)

food and chemical transportation equipment including railcars, tankers, trailers and components thereof

building materials and components (including walls, ceilings and floors consisting of concrete, gypsum board, and cellulose ceiling tile)

Incorporate this product into coatings that are intended for application to the surface of articles. The purpose of the coating is to seal the article from moisture and corrosion. The purpose of Zeomic® in the coating is to inhibit the growth of mold, mildew, fungus and bacteria that cause odor, discoloration, staining, deterioration or corrosion on the surface of the coating film. The product protects the applied coating itself from microorganism attack, not the underlying substrate. This product is not intended for remediation, prevention or control of existing or anticipated public health related microorganisms. Refer to Zeomic® AJ Technical Bulletin No. 2 for complete application directions.

HVAC articles³:

Heating, ventilation and air conditioning systems and related materials including air handlers, drain pans, heat exchangers, distribution lines, flexible ductwork, diffusers, and insulation lined porous ductwork.

Incorporate this product into coatings that are intended for application to HVAC systems. The purpose of the coating is to seal the HVAC system from moisture and corrosion. The purpose of Zeomic® in the coating is to inhibit the growth of mold, mildew, fungus and bacteria that cause odor, discoloration, staining, deterioration or corrosion on the surface of the coating film. The product protects the applied coating itself from microorganism attack, not the underlying substrate. This product is not intended for remediation, prevention or control of existing or anticipated public health related microorganisms. Refer to Zeomic® AJ Technical Bulletin No. 3 for complete application directions.

ACCEPTED

² For these listed application, the application of the polymeric Coating for Non-Reservice and the polymeric Coating for Non-Reservice applications, and applications. ³ For these listed HVAC Applications, refer to Zeomic® AJ Technical Bulletin No. 3 – Technical Bulletin for Zeomic® Type AJ Silver Zeolite A

³ For these listed HVAC Applications, refer to Zeomic® AJ Technical Bulletin No. 3 – Technical Bulletin for Zeomic® Type AJ Silver Zeolite A Polymeric Coating for Non-Residential, HVAC Upgrade Applications.

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Under the Federal Insecticide, Fungicide and Rodenticide Act as Amer amended for the pesticide, registered under EPA Reg. No. 7/227-/

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Adhesives and Sealants

The additive may be incorporated into the finished product at up to 5.0% by weight, or at least 0.05% for paper or 0.1% for bulk plastics. Contact Sinanen Company Ltd. to determine the appropriate amount of Zeomic® Type AJ Silver Zeolite A for individual finished products.

Food contact* and non-food contact uses (in all food contact cases, when the article itself is a FDA-approved polymer incorporated into FDA-approved adhesives or sealants):

plumbing adhesives

pipe sealants and insulating materials

grout and joint compound for; countertops, building materials and components, 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

Miscellaneous Applications

The additive may be incorporated into the finished product at up to 5.0% by weight. Contact Sinanen Company Ltd. to determine the appropriate amount of Zeomic® Type AJ 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

ACCEPTED with COMMENTS EPA Letter Dated:

JUN 1 5 2010

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended for the pesticide, registered under EPA Reg. No. 71227/

PRECAUTIONARY STATEMENTS

Hazards to Humans: 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. Remove contaminated clothing and wash clothing before reuse.

	FIRST AID
If on skin or clothing	 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	 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.
If inhaled	 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 swallowed	 Call 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.

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 product dry and containers covered during storage; store below 130°F.

Container Disposal: Inner Plastic Bag: Completely empty plastic bag into application equipment. Then 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:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

Pesticide Disposal what is the use of this product may be disposed of on site or at an approved waste disposed for the bated.

JUN 1 5 2010

Under the Federal Insecticide,