

71227-1.

6-13-2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Amy Roberts, Agent for Sinanen Company Ltd.  
c/o Technology Sciences Group, Inc.  
1101 17<sup>th</sup> Street, Suite 500  
Washington D. C. 20036

JUN 13 2002

**Subject: Zeomic Type AJ10D Silver Zeolite  
EPA Reg. No. 71227-1  
Your Amendment Dated 12/8/2000 and Revised Labels Submitted 1/28/02**


The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, to change the primary brand name ("Zeomic Type AJ10D Silver Zeolite A" to "Zeomic Type AJ Silver Zeolite A"), and to add certain uses including mouthguards, toys, personal care items, is acceptable (time limited) with the following label changes. The label version reviewed is dated 1/28/02. You must submit five copies of a final printed label with these changes.

1. Immediately after each listing of "mouthguards", "toothbrushes", "toys", and "cosmetic brushes", you must list the specific control claim(s) (ie., odors, discoloration, staining, deterioration, corrosion). For example, in mouthguards, list each claim(s) the product is intended to solve. It may only be odors.
2. For "mouthguards", you must indicate the types of mouthguards you intend to treat (eg., sports, dental, etc.).
3. You are responsible for monitoring and enforcing that the correct claim(s) accompanies any treated article listing on actual treated article labels which use this product.
4. Correct "spays" to "spas".
5. You must delete all references and citations to technical bulletins which have not been approved (eg., Bulletin #2 and #3).

**This is a time limited approval which expires automatically on 4/1/03. All the conditions and requirements listed in our letters dated 2/16/01 and 10/12/00 apply to this approval.**

A stamped copy of the accepted label and reviews are attached 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, or myself at 703-308-6341.

Sincerely,  
  
Marshall Swindell,  
Product Manager Team 33,  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

CONCURRENCES

SYMBOL							
SURNAME							

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# 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**

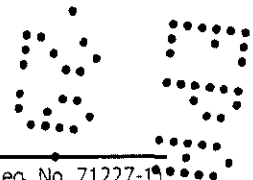
**Lot No. XXXXXXXXXX**

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with COMMENTS  
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## 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.

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\* 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

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\* 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 the manufacturing process to impart antimicrobial activity to the manufactured products. *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<sup>1</sup>

The additive may be incorporated into the finished product at up to 5.0% by weight or at least 0.3% 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:**

- 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, and cosmetic brushes)
- liners
- non-woven fabrics
- appliances and equipment
- kitchen and food processing utensils and supplies
- cutting boards
- countertops
- sinks
- tiles
- dishes
- 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

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### **Non-food contact uses only:**

- automobile parts
- shower curtains
- mats
- protective covers
- tape
- waste containers
- brush handles
- mops
- vacuum cleaner bags
- plumbing supplies and fixtures (including toilet bowl seats)
- drain pan liners<sup>2</sup>
- office equipment
- personal care items (including grooming items, toothbrushes, mouthgards)
- siding for housing
- kitchen and bathroom hardware
- flooring
- floor coverings
- footwear (including boots, sports equipment and tools)
- insulation for wire and cable
- insulators
- indoor and outdoor furniture
- toys
- spays, bathtubs, showers and filters and components thereof

<sup>1</sup> For incorporation in Plastic, refer to Zeomic® AJ Technical Bulletin No. 2 – Technical Bulletin for Zeomic® Type AJ Silver Zeolite A Incorporation into Plastic.

<sup>2</sup> 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.

**Fibers<sup>3</sup>**

The additive may be incorporated into the finished product at up to 5.0% by weight or at least 0.5% 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 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, 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):**

*Interior furnishings -*

- 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

*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 liners<sup>4</sup>

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<sup>3</sup> For Incorporation into Polymeric Fibers, refer to Zeomic® AJ Technical Bulletin No. 3 – Technical Bulletin for Zeomic® Type AJ Silver A Zeolite Incorporation into Polymeric Fibers.

<sup>4</sup> 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<sup>5</sup>**

The additive may be incorporated into the finished product at up to 5.0% by weight, or at least 0.05% for paper or 0.3% 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 cases, as an approved polymer coating for the 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 (in all cases, as an approved polymer coating for the article):**

- walls
- wallboard
- floors
- concrete
- siding
- roofing
- shingles
- industrial equipment
- furniture
- automotive and vehicular parts
- packaging
- paper products (including wall coverings, towels, book covers)
- barrier fabrics
- glazing for cement tile
- 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)<sup>6</sup>
- spas, bathtubs, showers, and filters and components thereof

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<sup>5</sup> For Polymeric Coating of Consumer Goods, Commercial and Industrial Products, refer to Zeomic® AJ Technical Bulletin No. 2 – Technical Bulletin for Zeomic® Type AJ Silver Zeolite A Polymeric Coating of Consumer Goods, Commercial and Industrial Products.

<sup>6</sup> 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.

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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 0.3% 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 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

**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

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### 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	
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water of 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

### 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:** Triple rinse (or equivalent). 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:** Wastes from the use of this product may be disposed of on site or at an approved waste disposal facility.

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