



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number: 68317-1  
Date of Issuance: 09/21/95

Term of Issuance: Conditional

Name of Pesticide Product:  
APACIDER - AK

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Sangi Group America, Inc.  
22554 Ventura Boulevard, # 127  
Woodland Hills, CA 91364

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes:

- a. Add the following statement "EPA Reg. No. 68317-1"
- b. Revise your Storage and Disposal statement to read:

**Pesticide Disposal**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance."

**Container Disposal (Paper/Bags)**

Completely empty 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.

Signature of Approving Official:

*M. S. Swandell for William Johnson*

Date:

*9/21/95*

Container Disposal (Plastic)

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

3. Submit two copies of the revised final printed label for the record.

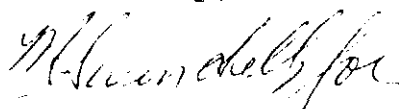
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

The following uses are not acceptable at this time: sheets, blankets, industrial and military uniforms, sportswear, sleepwear, stockings, socks, caps, shoe linings, & boots. These uses could represent significant human exposure. Before the agency can make a definitive determination as to their acceptability, submit a proposed Material Leaching Protocol for the different types of material these items represent. You may wish to setup a meeting with agency representatives to discuss the scope of a proposed leaching protocol before making an initial submission. Additionally the proposed use of your product in "Activated Carbon", "porous ceramic" and porous plastic foam", presumably for the manufacture of water filters, is unacceptable for this end-use product. In order to obtain this claim you must file a separate registration for a manufacturing use product.

If you have any questions concerning this letter please contact Karen Leavy-Munk at (703) 305-6966.

Sincerely,



Marion J. Johnson  
Product Manager 31  
Antimicrobial Program Branch  
Registration Division (7505C)

3 9 5

(Front Panel Label)

APACIDER - AK

APACIDER-AK 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, paint (interior), paper coating, adhesive, synthetic fibers and pigments. For more details of the various materials refer to the supplemental labeling for uses of Apacider - AK.

ACTIVE INGREDIENT:  
Silver \* as elemental 1.5%  
INERT INGREDIENTS: 98.5%  
\* From Silver Nitrate

KEEP OUT OF REACH OF CHILDREN  
CAUTION

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: May be harmful if swallowed. Avoid contact with skin, eyes, or clothing. Avoid contamination of cooking utensils and food preparation surfaces. Causes eye irritation. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT: If swallowed, drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Call a physician or poison control center. Do not induce vomiting or give anything by mouth to an unconscious person. If on skin, remove contaminated clothing and wash affected area with soap and water. If irritation persists, contact a physician. If in eyes, flush eyes for at least 15 minutes with water. If irritation persists contact a physician.

ENVIRONMENTAL HAZARDS: This pesticide may be toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL, Pesticide Disposal: 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. Unused material should be disposed of on site or an approved waste disposal facility.

CONTAINER DISPOSAL: Empty container thoroughly and rinse with water. Dispose in regular trash collection

MANUFACTURED BY

SANGI GROUP AMERICA, INC.  
22554 VENTURA BLVD, # 127  
WOODLAND HILLS, CALIFORNIA 91364

EPA REG NO. 68317  
EST. NO. 68317-JP-001  
Net Content: 20 kg

ACCEPTED with COMMENTS in EPA Letter Dated: SEP 21 1995  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 68317-1

4 9 5

(Back Panel)

APACIDER - AK

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

APACIDER - AK is a silver, calcium phosphate 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.

APACIDER - Ak may be incorporated into the following materials at the specified Maximum Inhibitory Concentrations (MIC) on a dry weight basis of finished products.

<u>APPLICATION</u>	<u>MIC</u>
Plastic Film: Non-food use only and no water pipes, Polyethylene, polypropylene, polyvinyl chloride, polyacetate, and polyester	20.00%
Paint (Water base and solvent base) For Interior surfaces & furniture	5.00%
Plastic Fibers: Polyethylene, Polyester, Nylon, Acrylic and polypropylene	20.00%
Plastic Sheets: Melamine, epoxy resin, phenol resin, polycarbonate, polyurethane, acrylic resin, methylmethacrylate, acrylonitrile butadiene styrene copolymer and polyvinyl acetate, polyvinyl chloride and polyethylene terephthalate	20.00%
Textile Finishing and Manufacturing	3.00%
Non-Woven: Polypropylene, Polyethylene, Polyester, Polyvinyl chloride and Nylon.	20.00%
<del>Plastic: Melamine, epoxy resin, phenol resin, polycarbonate, polyurethane, acrylic resin, methylmethacrylate, acrylonitrile butadiene styrene copolymer and polyvinyl acetate, polyvinyl chloride and polyethylene terephthalate</del>	<del>20.00%</del>
Flexible Tubing: Silicon rubber, polyvinyl chloride, polyethylene	20.00%

For details in blending APACIDER - AK with these materials refer to supplemental labeling.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

SEP 21 1995

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

68317-1

BEST COPY AVAILABLE

APACIDER - AK

Claims: Apacider - AK is to be incorporated into the following materials at suitable stages of the manufacturing process to impart antimicrobial activity to the treated materials, and thus make them suppress the growth of bacteria and mold responsible for unpleasant odors and discoloration of the treated materials.

Fibers: Polyester, polypropylene, nylon, polyethylene, acrylic, rayon

applications: Home Furnishings: mattress cover pads, ~~blankets~~, ~~blankets~~, quilt and pillow fiber fill, curtain and drapery, carpet and carpet underlay, upholstery, wiping cloths, towels, bags, wallcover fabrics, cushion pads, sound proofing, laminate in automobiles, ball point pens and telephones.

apparel: interlinings, ~~industrial & military uniforms~~, coats and aprons, ~~space wear~~, ~~sleepwear~~, ~~swimsuits~~, ~~swimsuits~~, helmets, ~~goggles~~, gloves, awnings, tents, shades, construction fabrics.

Industrial: brush bristles, ~~brush bristles~~, artificial leather, ~~brush bristles~~, book covers, sail cloth, ropes.

ACCEPTED with COMMENTS to EPA Letter Dated: EP 21 1985

Plastic Films and Molded Plastics:

Types: polyester, polyamide, polypropylene, polyethylene, polysiloxane, polyethylene copolymer, polyvinyl alcohol, epoxy resin, phenol resin, polycarbonate, cellulose acetate, polystyrene, polyurethane, acrylic methyl methacrylate, acrylonitrile butadiene styrene copolymer, vinyl chloride.

Under the Federal Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 68317-1

Applications: gloves, shower curtains, cable wraps, protective covers, non-food contact foam containers, brush handles, sponges, insulators, gaskets, non-food tubing, non-food contact containers and film, furniture, toys, bathroom utensils, kitchen & bath hardware, garden furniture & utensils, slippers, ~~blankets~~, roof liners, pool liners.

Paper Coatings (not for food packaging or for food contact):

Types: cellulosic, synthetic, specialty, reinforced

Applications: wallpaper, non-food wrap, wiping towels, book covers, corrugated paper filters, storage boxes, bags, folders, filing covers.

Paint: water based, oil based paints; for interior surfaces (not for exterior paint) textile dyeing and finishing operations, paint preservers, viscosity agents, plasticizers.

Adhesives (not for adhesives for paper or containers that will come in contact with food):

Applications: adhesive for plywood manufacture, adhesive for cement tile and sealants, wallpaper glues, fiber binders, laminate adhesives, footwear adhesives.

STATEMENT OF WARRANTY AND DISCLAIMER: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with the directions under normal conditions of use, neither this warranty nor any other warranty of MERCHANTABILITY nor FITNESS FOR A PARTICULAR PURPOSE expressed or implied extends to the use of this product contrary to labeling instructions or under abnormal conditions, or under conditions not reasonably foreseeable to seller and buyer assumes the risk of any such use. Any damages arising from breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.