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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

JUN 23 1997

Olin Research Center
350 Knotter Drive
Cheshire, CT 06410-0586

Attention: Diane Petroccione
1
Subject: Zinc Omadine Powder Industrial Microbiostat
EPA Registration Number 1258-840
Your Submission Dated May 15, 1997
EPA Received Date May 16, 1997

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to add the use "Components of uppers in footwear" on the revised product labeling, is acceptable.

Based on the provided Food and Drug Administration clearance letters, the removal of the "Nonfood use" restriction statement for adhesives and polymers is acceptable. Your product is now cleared for the treatment of adhesives used for food contact packaging in accordance with 21 CFR 175.105 (a) and (b).

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

If you have any questions concerning this letters, please contact Karen M. Leavy-Munk at (703)-308-6237.

Sincerely yours,

Marshall Swindell
Acting Product Manager(33)
Regulatory Management Branch I
Antimicrobial Division(7510W)

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGER:

Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. May be fatal if swallowed or if inhaled. Do not take internally or breathe dust. Harmful if absorbed through skin. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Drink promptly large quantities of water. Get medical attention. If on Skin: Wash with plenty of soap and water. Get medical attention if irritation persists. If in Eyes: Hold eyelids open and flush with a steady, gently stream of water for 15 minutes. Get medical attention. If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably, mouth-to-mouth. Get medical attention.

CHEMICAL HAZARDS. Handling conditions may form dust clouds which are susceptible to ignition by electrical (static) discharge. Ground container and personnel before transferring material. Do not store or mix with strong oxidizing agents or strong (concentrated) acids. In case of contamination do not reseal container. If possible, isolate container in open or well ventilated area. Fumes caused by contamination may be hazardous.

ENVIRONMENTAL HAZARD: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant 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 our State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL: Do not store above 100 degrees F. (38 deg. C.). Keep container tightly closed when not in use. Do not store with strong oxidizing agents or strong (concentrated) acids. Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticides, 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. Do not reuse

pty container. Triple rinse then offer for rec ıg or ..conditioning, 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.

ZINC OMADINE® POWDER INDUSTRIAL MICROBIOST

Active Ingredient:	
Zinc, 2-pyridinethiol-1-oxide*	95%
Inert Ingredients	5%
Total	100%

*Zinc Pyrithione

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE SIDE PANEL FOR STATEMENT OF PRACTICAL TREATMENT & ADDITIONAL PRECAUTIONS

Net Wt 25 Lbs

OLIN CORPORATION
P.O. BOX 4500
501 Merritt Seven
Norwalk, CT 06856-4500

EPA Reg. No. 1258-840
EPA Est. No. 1258-NY-3

DIRECTIONS FOR USE: It is a violation of federal law to use this product in a manner inconsistent with its labeling.

FOR THE DRY FILM PRESERVATION OF NATURAL AND SYNTHETIC ADHESIVES ~~(NONFOOD USES),~~ CAULKS, PATCHING COMPOUNDS, SEALANTS AND GROUTS.

Addition of up to 5000 ppm of this product will inhibit microbial growth (bacteria and fungi) in the dry film of these products. This product can be added at any time during the formulation procedure. Add by pouring or by the use of metering equipment. For example, sheet vinyl adhesives used in the installation of vinyl flooring can be preserved (bacterial & fungal control) by the addition of 1000 ppm of this product (1 lb. per 1000 lbs. of adhesive).

TO CONTROL THE GROWTH OF FUNGUS IN ADHESIVES USED FOR FOOD PACKAGING: at use temperatures of the food packaging up to 120 deg. F. and subject to Good Manufacturing Practices, including the conditions specified in 21 CFR 175.105 (a) and (b), add a dosage of 750 ppm to a maximum of 1000 ppm of this product. (Add a maximum of 1 lb. of this product per 1000 lbs. of food packaging adhesive.) Add this product at a point in the adhesive formulating where thorough mixing will take place.

Floor Tile Adhesive: for control of fungus add 750 ppm and for control of bacteria add 2400 ppm of this product. (Add 0.75 lb. of this product per 1000 lbs. of floor tile adhesive to control fungus and 2.4 lbs. of this product for control of bacteria.)

Caulks/Sealants: For control of fungus add 2083 ppm of this product and for control of bacteria add 10400 ppm of this product. (Add 2.083 lbs. of this product per 1000 lbs. of caulk/sealant to control fungus, 10.4 lbs of this product to control bacteria.)

Grouts/Patching compounds: For fungal control add 1000 ppm of this product and for bacterial control add 4000 ppm addition of this product. (Add 1 lb. of this product to 1000 lbs. of grouts/patching compounds to control fungus and 4 lbs. of this product to control bacteria.

2 of 3

MAIN

Variations of formulations, conditions of use & desired degree of protection will all affect the concentration of this product needed. Contact Olin Corporation Technical Service or Sales Department for assistance in developing a minimum dose level for your particular formulation and its conditions of use.

TO CONTROL THE GROWTH OF FUNGUS IN REPEAT USE-POLYMERIC FOOD CONTACT MATERIALS:

To control the growth of fungus in repeat-use polymeric food contact materials intended for use at room temperature or below, add 1000 parts per million (ppm), 1 lb. of this product per 1000 lbs. of polymer formulation. Add at a point where thorough mixing will take place. This product can be added by pouring or through the use of metering equipment.

FOR THE CONTROL OF MILDEW & BACTERIA IN STYRENE BUTADIENE RUBBER & THERMOPLASTIC RESINS USED IN THE MANUFACTURE OF PRODUCTS SUCH AS CARPET FIBERS; CARPET BACKINGS; RUBBER OR RUBBER BACKED BATH MATS; FOAM UNDERLAY FOR CARPETS; SYNTHETIC, NON-LEATHER MATERIALS; FOAM STUFFING FOR CUSHIONS AND MATTRESSES; WIRE AND CABLE INSULATION; VINYL, LINOLEUM, TILE OR OTHER SYNTHETIC FLOOR COVERINGS ~~(Non-food areas only)~~; WALL COVERINGS ~~(Non-food areas only)~~ PLASTIC FURNITURE; ATHLETIC FLOORING AND MATS; MATTRESS LINERS, COVERS OR TICKING; MOLDING; MATS; GASKETS; WEATHER STRIPPING; COATED FABRICS FOR FURNITURE CUSHIONS, BOAT COVERS, TENTS, ETC.; TARPAULINS & AWNINGS; RUBBER GLOVES (NON-SURGICAL); GARBAGE BAGS, CANS & OTHER REFUSE CONTAINERS; BATHTUB APPLIQUES; GARDEN HOSE; PIPE (NON-POTABLE WATER); DUCTWORK; SHOWER CURTAINS; SPONGES; FIBER MOPS; TOILET BRUSH RECEPTACLES; TOOTHBRUSH HANDLE RECEPTACLES (NON-BRISTLE CONTACT); SCRUB BRUSHES (NON-MEDICAL); SINK MATS & DRAIN BOARDS;

DRAWER ORGANIZERS & OTHER STORAGE CONTAINERS; SOAP DISH HOLDERS & TOWEL BARS; COMPONENTS OF UPPERS IN FOOTWEAR.

Addition of up to 0.4% (4 lbs./1000 lbs. of formulation) of this product can inhibit the growth of mildew & bacteria in styrene butadiene rubber & thermoplastic resins such as vinyl chloride -vinyl acetate copolymers, polyurethanes, polyamides, polyolefins, polystyrene, polyesters & acrylonitrile copolymers. It can be added at a time during the formulation procedure that will insure uniform distribution throughout the polymer system. Add by pouring or by use of metering equipment. For example, to inhibit mildew growth in polyurethane shoe soles, add 0.2% (2 lb./1000 lb. of formulation) of this product to the polyurethane formulation.

FOR THE IN CAN PRESERVATION OF CLAY, MINERAL, PIGMENT AND GUAR GUM SLURRIES, LATEX EMULSIONS AND SIMILAR HIGH-SOLIDS AQUEOUS MEDIA SYSTEMS ROUTINELY APPLIED TO THE SURFACE OF WALLS, CEILING TILES, PARTITIONS AND OTHER HARD INANIMATE NONFOOD CONTACT SURFACES EXCLUDING ANY MEDICAL APPLICATIONS. A dosage of up to 5000 ppm is recommended. This dosage is equivalent to 5 lbs. of this product per 1000 lbs of slurry. It may be added at any time during the formulation procedure.

FOR THE DRY FILM PRESERVATION OF AQUEOUS LATEX & OTHER WATER BASED ARCHITECTURAL & INDUSTRIAL (NON-MARINE) PAINTS & COATINGS:

Components of footwear

Addition of up to 5000 ppm of this product can inhibit the growth of algae, bacterial slime, mildew, and other fungi. It can be added at any time during the formulation procedure. For example, the dry film of a house paint having a density of 10 lbs. per gallon can be protected against the growth of algae, bacterial slime, mildew and other fungi by the addition of 5000 ppm of this product (5 lbs. of this product into 100 gallons of paint).

Latex Paints: For control of fungus or algae on the dry paint film use a minimum of 2500 ppm of this product. For maximum protection against the growth of fungus or algae, use 10400 ppm of this product. For control of bacterial growth on the dry paint film surface, use 2500 ppm of this product. (Add 1.25 lbs. of this product to 1000 lbs. of wet paint).

TO INHIBIT THE GROWTH OF BACTERIA & FUNGI IN DRY WALL & OTHER GYPSUM, PEARLITE, PLASTER-LIKE OR MINERAL BASED BUILDING MATERIALS USED IN THE MANUFACTURE OF CEILINGS, CEILING TILES, WALLS & PARTITIONS & OTHER HARD INANIMATE SURFACES EXCLUDING THOSE INVOLVED WITH MEDICAL APPLICATIONS:

Addition of up to 4000 ppm of this product (4 lbs. of product per 1000 lbs. of the formulation, i.e., wet slurry) will inhibit the growth of bacteria & fungi. It can be added at any time during the formulation procedure. Alternatively the product may be added to latex or other types of coating systems routinely applied to the surfaces of walls, ceiling tiles, partitions, etc. at the same dosage as above.

TO INHIBIT BACTERIAL AND FUNGAL GROWTH ON LAUNDERED FABRICS: Add 3-9 ounces of this product per 1000 gallons of acid sour. Apply to the sour operation and run for a minimum of five minutes.

ACCEPTED
with COMMENTS
In EPA Letter Dated:

JUN 23 1997

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

1258-840