



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401

"M" St., S.W.

Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

1258-1235

AUG 07 2000

Term of Issuance:

CONDITIONAL

Name of Pesticide Product:

"Zinc Omadine ZOE
Dispersion Mildewcide"

NOTICE OF PESTICIDE:

Registration
 Re-registration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Arch Chemicals, Inc.
501 Merritt 7
Norwalk, CT 06856

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 section 3(c)(7)(A) provided that you:

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

2. Add the phrase EPA Registration Number "EPA Reg. No. "1258-1235".

Signature of Approving Official:

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

Date:

AUG 07 2000

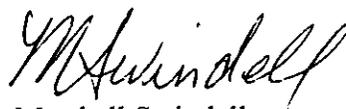
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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

If you have any questions concerning this letter, please contact myself at 703-308-6341, or Tony Kish at (703) 308-9443.

Sincerely,



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

Enclosure

**PRECAUTIONARY STATEMENTS:
HAZARDS TO HUMANS AND
DOMESTIC ANIMALS**

DANGER CORROSIVE. Causes irreversible eye damage. May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or spray mist. Wear protective eyewear (goggles, face shield or safety glasses) and protective clothing and rubber gloves. Wash thoroughly after handling with soap and water, and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

**STATEMENT OF PRACTICAL
TREATMENT**

IF IN EYES: Hold eyelids open and flush with a steady, gently stream of water for 15 minutes. Get medical attention.

IF SWALLOWED: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably, mouth-to-mouth. Get medical attention.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

**ZINC OMADINE® ZOE
DISPERSION MILDEWCIDE**

Active Ingredient:
Zinc, 2-pyridinethiol-1-oxide* 37.6%
Inert Ingredients: 62.4%
Total: 100.0%

*Zinc Pyrithione

KEEP OUT OF REACH OF CHILDREN

DANGER

See Side Panel For Statement of Practical
Treatment and Additional Precautions

Net Wt 25 Lbs.

ARCH CHEMICALS, INC.
501 MERRITT SEVEN
NORWALK, CT 06856

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

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Omadine® is a registered trademark of
Arch Chemicals, Inc. Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.

1258-1235

CHEMICAL HAZARDS

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

PESTICIDE STORAGE: Store above 50°F. Do not allow freezing. Keep container tightly closed when not in use. Do not store with strong oxidizing agents or strong (concentrated) acids.

PESTICIDE DISPOSAL: 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 empty container.

CONTAINER DISPOSAL: Triple rinse then offer for recycling, reconditioning, puncture and dispose of in a sanitary landfill, incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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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. We recommend that users contact Arch Chemicals Technical Service for formulation assistance. **Do not use for any application involving food contact or drinking water contact.**

Overview:

Formulations differ in terms of their composition and as a result, they differ in terms of their susceptibility to microbial attack. In addition, the conditions of use and the performance expectations differ from product to product. A warranted high performance paint, for example, that is under consideration for use in severe tropical environments, is likely to need a high dose of biocide. Our first recommendation in such circumstances would be a recommendation for testing at higher biocide use levels. In this example, we would recommend testing at 3000, 4000 and 5000 ppm. As the product adds cost to the formulation and as performance requirements need to be met, laboratory and field tests are conducted to establish the antimicrobial performance of this product. A use level recommendation is made following evaluation of extensive laboratory and field trial results. An unwarranted paint that is not intended for use in severe environments would likely need a lower dose. Again, a recommendation would be made for testing at lower concentrations based on formulation, performance and cost considerations. As before, a use level recommendation would be made following evaluation of extensive laboratory and field trial results. Recommendations are rarely made outside this process. When they are, the recommendations are based on our knowledge of a customer's formulation, expected use conditions, cost considerations and performance requirements. Typically, these recommendations are mid-range. As the maximum allowable concentration of biocide varies from application to application, the recommendation typically remains mid-range. A minimum cost effective use level recommendation can only be established through testing of a specific formulation intended for use in a specific application.

Minimum inhibitory concentrations (MIC's) have been developed for this product against a broad spectrum of microorganisms, *in vitro*. Many bacterial species were found to have a MIC of less than 32 ppm. Many fungal species were found to have a MIC of less than 16 ppm. Most algal species tested had a MIC of less than less than 1 ppm. With this product history and product related variables in mind, minimum use level recommendations are not included.

DRY FILM PRESERVATION: THIS PRODUCT PROTECTS THE APPLIED DRY FILM ITSELF AND DOES NOT PROTECT THE UNDERLYING SURFACE FROM ATTACK BY ALGAE, FUNGI, MILDEW OR BACTERIA.

For the Dry Film Preservation of Flooring Adhesives, Caulks, Sealants, Grouts and Patching Compounds:

Flooring Adhesives: For fungal control add 1500 ppm of this product and for bacterial control add 4800 ppm of this product. (Add 1.50 lbs. of this product to 1000 lbs. of adhesive to control fungus and add 5.0 lbs. per 1000 lbs. of adhesive to control bacteria.)

Caulks/Sealants: For fungal control add 4100 ppm of this product and for bacterial control add 10,000 ppm of this product. (Add 4.10 lbs. of this product per 1000 lbs. of caulk/sealant to control fungus, add 10.0 lbs. of this product to control bacteria.)

Grouts/Patching Compounds: For fungal control add 2000 ppm of this product and for bacterial control add 8000 ppm of this product. (Add 2.083 lb. of this product to 1000 lbs. of grouts/patching compounds to control fungus and 8.33 lbs. of this product to control bacteria.)

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For the Dry Film Preservation of Aqueous Latex Architectural and Industrial Non-Marine Paints and Coatings: Addition of up to 10,400 ppm of this product can inhibit the growth of algae, bacterial slime, mildew, and other fungi. Use a minimum of 5000 ppm of this product. 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 10,000 ppm of this product. (Add 10.0 lbs. of this product to 100 gallons of wet paint.)

To Inhibit the Growth of Bacteria and Fungi In Dry Wall and Gypsum, Pearlite, Plaster-Like or Mineral Based Building Materials Used In the Manufacture of Ceilings, Ceiling Tile, Walls and Partitions: Addition of up to 8000 ppm of this product (8.0 lbs. of product per 1000 lbs. of the formulation, i.e., wet slurry) will inhibit the growth of bacterial and fungi. It can be added at any time during the formulation procedure.

For the Control of Mildew and Bacteria In Styrene Butadiene Rubber and Thermoplastic Resins Used In the Manufacture of the Following Products: 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 and Synthetic Floor Coverings; Wall Coverings; Plastic Furniture; Athletic Flooring and Mats; Mattress Liners, Covers or Ticking; Molding; Mats; Gaskets; Weather Stripping; Coated Fabrics For Furniture Cushions, Boat Covers, Tents; Tarpaulins; Awnings; Non-Surgical Rubber Gloves; Garbage Bags, Refuse Containers; Bathtub Appliques; Garden Hose; Non-Potable Water Pipe; Ductwork; Shower Curtains; Sponge or Fiber Mops; Toilet Brush Receptacles (Non Bristle Contact); Non-Medical Scrub Brushes; Sink Mats and Drain Boards; Storage Containers; Soap Dish Holders; Towel Bars and Components of Uppers In Footwear.

Addition of up to 8000 ppm (8.33 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 and 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 footwear components, add 4000 ppm (4.0 lbs./1000 lbs. of formulation) of this product to the polyurethane formulation.

For the In Can Preservation of Latex Emulsions, Clay, Mineral, Pigment and Guar Gum Slurries Used In the Manufacture of Adhesives, Caulks, Patching Compounds, Sealants and Grouts: A dosage of up to 10,400 ppm of this product is recommended to control bacteria and fungi. This dosage is equivalent to 10.83 lbs. of this product per 1000 lbs. of slurry. It may be added at any time during the formulation procedure.

To Inhibit Bacterial and Fungal Growth On Laundered Fabrics: Fabrics to be treated include nylon, polypropylene, polyethylene, polyesters, cellulose and blends of these polymers. At a sour density of 8.3 pounds per gallon, add 6-18 ounces of this product per 1000 gallons of acid sour to reach a use level of 23 to 68 ppm. Apply to the sour operation and run for a minimum of five minutes. Product is to be used in industrial applications. Product is not intended for use in residential, commercial or institutional settings.

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