



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (H7510C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

58300-7

AUG 9 1999

Term of Issuance:

Conditional

Name of Pesticide Product:

ZyDox AD-02

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Dyn-O-Mite International, Inc.
718 Industry Road
Longwood, Florida 32750

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. Revise the EPA Registration Number to read, "EPA Reg. No. 58300-7".
- b. Revise the "Environmental Hazards" Statement to read:

"This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, 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

Signature of Approving Official:

Robert S. Brennis, Acting PM 32

Date:

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prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA".

- c. Delete the claim "To Disinfect Walls, Ceilings, Floors, Drains, Piplines and Utensil". This use is not accepted. If you wish to add this use to your label you must submit data to support this use. The me-too product that you are citing is accepted to "Disinfect Walls, Ceiling, and Floors" only.

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

4. Submit a revised Confidential Statement of Formula (CSF).

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.



Best Available Copy

ZyDox-AD-02™

2% AQUEOUS STABILIZED CHLORINE DIOXIDE

FOR INSTITUTIONAL OR INDUSTRIAL USE ONLY

Active ingredients:
 Chlorine Dioxide: 2%
 Inert ingredients: 98%
 100%

KEEP OUT OF REACH OF CHILDREN

CAUTION
SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS

E.P.A. REG. NO. E.P.A. EST. NO. 58300

NET WT. _____ lbs.

DYN-O-MITE INTERNATIONAL, INC.

Longwood, Florida

ACCEPTED
with COMMENTS
in EPA Letter Dated:

AUG 9 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 58300-1

PRECAUTIONARY STATEMENT
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION: Harmful if swallowed. Avoid contact with skin, eyes or clothing.
STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Drink plenty of water for 15 minutes. Get medical attention. Avoid alcohol. Get medical attention.
If in Eyes: Flush with plenty of water for 15 minutes. Get medical attention.
If on Skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

NOTE TO PHYSICIAN
Probable mucosal damage may compromise the use of genetic therapy.
ENVIRONMENTAL HAZARD

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, creeks, canals or other waters within 100 yards of the discharge point. The requirements of a National Pollution 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 unless previously notified the sewage treatment plant authority. For guidance contact your state Water Board or Regional Office of the EPA.

CHEMICAL AND PHYSICAL HAZARDS

Stabilized Chlorine Dioxide is a strong oxidizing agent. Contact with other materials such as acids, toxic elements, organic materials, etc., may cause a chemical reaction, resulting in evolution of chlorine dioxide gases and heat. Explosion and/or fire could result. Chlorine dioxide is a poisonous explosive gas. Keep all chemical and foreign materials away from this solution.

STORAGE AND DISPOSAL

Do not store with easily combustible materials, acids, reducers and combustible materials. Avoid heat or freezing conditions. Store upright and do not stack drums over 2 high on pallets or possibly steel drums. Use of a drum pump is suggested. Keep drums tightly closed when not withdrawing liquid. In case of spills, dilute with large quantities of water. Do not allow liquid to dry because this could present a fire hazard. Store only in the original container and use only in present cross contamination with other pesticides, herbicides, food and feed.

EMERGENCY HANDLING: In case of contamination or decomposition, do not reuse container. Isolate in an open, well ventilated area. Flood with large volumes of water. Cool exposed drums in vicinity by water spray.

RESTRICTION DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticides wastes are acutely toxic. Improper disposal of excess pesticide, spray mixture or residues is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency or the nearest Waste Management Agency at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: 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.

NOTICE: Seller expressly warrants that the product conforms to its chemical description. There are no warranties associated with the sale of this product, either express or implied, including, but not limited to the warranty of fitness for a particular purpose or use.

DIRECTIONS FOR USE
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Before using this product in the preparation of chlorine dioxide for biological control in paper mills, food processing systems, water treatment equipment, pest control recovery, hospital disinfection, building oils, cooling towers, hard surface disinfection or substitution of food processing equipment.

PRODUCT DATA - ZYDOX-AD-02

TO DISINFECT WALLS, CEILING, FLOORS, DRAINS, PIPELINES AND UTENSILS:

- Directions for Use:
1. Before application, all gross filth must be removed, then clean the areas to be disinfected with a detergent solution followed by a potable water rinse.
 2. Add 2.5 fl. oz. of ZyDox-AD-02 per gallon of solution to be used. (1.5% dilution). Adjust the pH of the solution to 4.0 with acetic acid (Vinegar) or citric acid, phosphoric acid or add 2.5 grams of Aschaby to each gallon of solution. Allow to stand for 15 minutes.

3. Spray or fog the above solution onto surface to be disinfected. Allow to remain for at least 20 minutes but preferably longer and allow to air dry. Use suitable protective breathing apparatus when fogging or spraying. Then allow solution to air dry. Always apply freshly prepared solution.
4. For air sanitizing of previously cleaned utensils, twenty stained dishes and glasses, equipment parts, prepare the solution as described above. Fill and hold for 20 minutes. Drain and air dry.

TO CONTROL THE BUILDUP OF ODOR AND SLIME AND IMPROVE TASTE IN ICE PLANTS AND POULTRY AND MEAT PROCESSING PLANT WATER

- Directions for Use:
1. Thoroughly clean the ice making machinery with a detergent solution followed by a potable water rinse.
 2. Meter into the incoming water in the ice plant potable water system, 1.0 gal. of ZyDox-AD-02 per 1,000 gal. of water (20 ppm available ClO₂).
 3. As an additive to potable water in food and poultry processing plants to inhibit bacterial slime and improve taste and odor, add 1.0 gallon of ZyDox-AD-02 per 1,000 gallons of water.

TO CONTROL ODOR AND SLIME FORMING BACTERIA, MOLD AND MILDREW ON WALLS, FLOORS AND CEILING

- Directions for Use:
1. Before treatment, remove all gross soil, wash with detergent and rinse with potable water.
 2. Spray or soak the walls, floor and ceiling with a solution of 2.5 gallons of ZyDox-AD-02 diluted to 20 gal. with water. (200 ppm available ClO₂). Avoid breathing the mist with suitable respiratory protection. Avoid contact with food. Allow to air dry and repeat as necessary.

TO INHIBIT BACTERIAL SLIME FORMING BACTERIAL BUILDUP IN COMMERCIAL WATER FILTRATION SYSTEMS, SAND BEDS, GRAVEL BEDS, CHARCOAL FILTERS AND COOLING WATER SYSTEMS

- Directions for Use:
1. Carefully back flush filters with potable water whose possible to remove all accumulated solid residue and contamination.
 2. Fill system with potable water and adjust the pH to 6.0 with citric acid, phosphoric acid or acetic acid (Vinegar) or equivalent.
 3. Add 2.0 fl. oz. of ZyDox-AD-02 per gallon (900 PPM) of filter system volume to the recirculation and circulate the system for 1 hour. Check the pH and adjust back to 6.0 if it has drifted. Bring the ClO₂ concentration back to 300 ppm.
 4. Circulate the solution for 1 additional hour, discharge and then water wash for 30 minutes with potable water to remove the chlorine dioxide.

COOLING WATER SYSTEMS

1. Add 2.5 gallons of ZyDox-AD-02 per 10,000 gallons of cooling water every week.
 2. Depending on the degree and type of contamination, solution frequency may be reduced to every 2 - 3 weeks when contamination is under control.
- INDUSTRIAL APPLICATIONS - TO INHIBIT THE GROWTH OF SLIME AND ODOR CAUSING BACTERIA IN WATER BASED CUTTING OILS**
- Directions for Use:
1. Batch Method - add 80 oz. of ZyDox-AD-02 per thousand gallons to fresh system and repeat weekly or on first indication of increased bacterial contamination (odor, slime, bacterial coating) alkaline system may require higher concentration of ZyDox-AD-02.
 2. Continuous Method - Proportion to 5 gallons of ZyDox-AD-02 per million gallons per day used in the system. Alkaline systems may require higher concentration.
 3. Batch Contaminated Systems - Slug dose system with 25 gallons of ZyDox-AD-02 per million gal. of cutting oil. Then start the continuous procedure described above.

Adjust quantities in any of contamination, pH, type of TO PREVENT CORROSION) SECONDARY RECOVERY

Directions for Use:
1. Prepare a working solution of 1.5 gal. of ZyDox-AD-02 per 100 gal. of water.
2. Proportion 1 part of the solution to 10 parts of water.
3. Monitor microbial counts and pH of the solution.

IN FOOD PROCESSING AND BOTTLING PLANTS
For use as a terminal floor or wall sanitizer, add 1.0 gallon of ZyDox-AD-02 per 1,000 gallons of water.

Directions for Use:
1. This solution is used for sanitizing floors, walls, ceilings, etc.
2. This solution may be used on the interior or exterior of the building.
3. All equipment should be sanitized with this solution before use.
4. The active blocks in this solution should be replaced every 30 days.

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