

Product:	Anthium Dioxide®
Active Ingredient:	5.0% chlorine dioxide (5% aqueous stabilized chlorine dioxide)
Distributor:	International Dioxide Inc. (a DuPont Company) www.chlorinedioxide.dupont.com
Registered use pattern and rates: <i>Label current as of December, 2013</i>	<p>Approved for food contact surface use at 200 ppm and for non-food contact surfaces. Clean the areas prior to application.</p> <p>Use in mushroom production, spawn production, mushroom processing and cannery operations as a food-contact surface sanitizer, to disinfect non-food contact surfaces, to sanitize non-food contact surfaces, to control mold and mildew on environmental surfaces.</p> <p>For deodorizing irrigation water or areas, dilute 1 part Anthium Dioxide® with 1000 parts water; use the same concentration to obtain optimum whitening effects in irrigation waters. Deodorizing sludge waste pile or land areas is also allowed. For use as a terminal sanitizing rinse for stainless steel tanks, transfer lines, on-line equipment, picking baskets, picking utensils and other food contact surfaces, prepare a 200 ppm activated-use solution by one of the three procedures described on the label. Flush the surfaces with the sanitizing solution making sure surface area is thoroughly wet for at least 1 minute. Drain and allow to air dry.</p> <p>To disinfect walls, ceilings and floors, prepare a 300 ppm disinfectant use-solution of Anthium Dioxide® by one of the three procedures described on the label. Spray with a suitable device and make sure that the area is thoroughly wet for at least 10 minutes. Allow to air dry after application, never reuse activated solutions.</p> <p>To sanitize walls, ceilings and floors, prepare a 30 ppm activated use-solution of Anthium Dioxide® as described for “Non-Food Contact Surface Sanitizing Solution”, making sure the surface is wet for at least 10 minutes.</p> <p>To control mold and slime forming bacteria on walls, floors, ceilings, and post-crop mushroom growing surfaces, prepare a working solution of 1000 ppm available chlorine dioxide by diluting 2 2/3 fl. oz. Anthium Dioxide® per 1 gallon working solution. Apply by drench, spray, or fog on the surfaces, using suitable devices, and making sure all areas are wet. Avoid contact with food or food-contact surfaces, allow to air dry. For additional directions, please see the attached label.</p>
Material Safety issues:	<p>Precautions for handling, use, and storage of this product are provided on the MSDS. The manufacturer has requested that you contact them at 1-800-441-7515 to obtain a copy of the MSDS.</p> <p>Avoid breathing fumes, prepare solution for disinfecting walls, ceilings and floors in well-ventilated area. Precautions are described on the label.</p>
Comments:	<p>Mildly corrosive. Effective under some organic matter load. Please see the manufacturer’s website for additional information: www.chlorinedioxide.dupont.com</p>

9150-2

07/24/2008

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



Office of Pesticide Programs

July 24, 2008

Thomas McEntee
International Dioxide, Inc.
A DuPont Company
40 Whitecap Drive
North Kingstown, RI 02852

Subject: Anthium Dioxide
EPA Registration No. 9150-2
Application Date: April 30, 2008
Receipt Date: May 5, 2008

Dear Mr. McEntee:

This application requests voluntary deletion of the fuel ethanol fermentation claim based on Agency initiated correspondence dated 2/16/08. The deletion request is hereby granted.

The following amendment submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable with conditions.

Conditions

1. Change ***Salmonella choleraesuis*** to ***Salmonella enterica*** everywhere it appears on the label.
2. Add the pre-cleaning instructions to the Food Contact Surface Sanitizing Solution directions for use: Prior to sanitization, remove all gross food particles and soil.
3. Remove the "s" from minute under "To Sanitize Non-Porous, Non-Food Contact Hard Surfaces . . ." directions for use.
4. The second use direction under "To Control Odor and Slime Forming Bacteria in Water Bath Incubators" has been revised from: "Add 0.13 fl. oz. Anthium Dioxide for each **one (1) water** or 1.0 ml. to 1 liter water (50 ppm available chlorine dioxide)."

To read: "Add 0.13 fl. oz. Anthium Dioxide for each 1.0 ml. to 1 liter water (50 ppm available chlorine dioxide)."

- 5. The amount of "Acid" has been significantly decreased under Hard Non-Porous Surfaces Disinfectant and Sanitization claims for Animal Rearing and Confinement Facilities use directions. Please provide a rationale as to why acid decrease was deemed necessary.
- 6. Move the heading for "Industrial Water Systems and Industrial Biocide Use" to the top of page 13 on the label.
- 7. Remove the extra space from "5,000" under the Enclosed and Recirculating Cooling Water Systems use directions on page 13 of the label.
- 8. Clarify the activator use direction number 2 under "As A Slimicide in Paper Mills to Prevent Slime, Tar Spots, and Pitch Spots in White Water." Is the dosage rate each 4 one half gallons or 4½ gallons? This statement is very confusing.
- 9. Move the heading "To Prevent Corrosion and Slime Bacteria in Oil Wells during Secondary Recovery Operations" to the top of page 14 on the label.
- 10. The contact time for disinfection and sanitization of ceiling and floors are the same. The data submitted for sanitization should have provided for at least a 5 minute contact time. If you do not have data for the 5 minute contact, then you must remove the sanitizer claims.
- 11. Add a space between "1,000 and gallons" on page 18 under the "To Prevent Airborne and Surface Contamination of the Hatchery from the Tray Washing Room and Loading Platform."
- 12. The Food and Drug Administration (FDA) endorsement/implied safety claim has been removed from the label.

General Comments

A stamped copy of the labeling accepted with conditions is enclosed. Submit one copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please call Wanda Henson at (703) 308-6345.

Sincerely,



Emily H. Mitchell
Product Manager - Team 32
Regulatory Management Branch II
Antimicrobials Division (7510P)