

9150-12

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460



Office of Pesticide Programs

JUL - 1 2009

FILE COPY

Bonnie J. Bieber  
Regulatory Coordinator  
International Dioxide Inc.  
40 Whitecap Drive  
North Kingstown, RI 02852

Subject: Anthium AGP  
EPA Registration No. 9150-12  
Application Date: June 2, 2009  
Receipt Date: June 4, 2009

Dear Ms. Bieber:

This acknowledges receipt of your notification, submitted under the provision of PR Notice 98-10, FIFRA section 3(c)9.

**Proposed Notification:**

- Revision to Storage and Disposal Statement per PR Notice 2007-4

**General Comments:**

Based on a review of the material submitted, the following comments apply:

The notification is acceptable and a copy has been inserted in your file for future reference.

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

Sincerely,

Wanda Y. Henson  
Product Reviewer (32)  
Regulatory Management Branch II  
Antimicrobials Division (7510P)



**EPA**

United States  
**Environmental Protection Agency**  
Washington, DC 20460

- Registration
- Amendment
- Other: NOTIFICATION

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number <b>9150-12</b>	2. EPA Product Manager <b>Emily Mitchell</b>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>Anthium AGP</b>	PM# <b>Team 32</b>	
5. Name and Address of Applicant (Include ZIP Code) <b>International Dioxide, Inc. 40 Whitecap Dr. North Kingstown, RI 02852 Attn: Bonnie J. Bieber</b>	6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Check if this is a new address

**Section - II**

- Amendment - Explain below.
- Resubmission in response to Agency letter dated \_\_\_\_\_
- Notification - Explain below.
- Final printed labels in response to Agency letter dated \_\_\_\_\_
- "Me Too" Application
- Other - Explain below

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

**"Notification of label change per PR Notice 2007-4.**

*This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."*

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container	<input type="checkbox"/> Glass
<b>*Certification must be submitted</b>					<input type="checkbox"/> Paper
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)		
Name <b>Bonnie J. Bieber</b>	Title <b>Regulatory Coordinator</b>	Telephone No. (include Area Code) <b>(302) 995-1557</b>
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>
2. Signature 	3. Title <b>Regulatory Coordinator</b>	
4. Typed Name <b>Bonnie J. Bieber</b>	5. Date <b>6/2/09</b>	



International Dioxide, Inc.  
40 Whitecap Dr.  
North Kingstown, RI 02852

DELIVERED BY COURIER

June 2, 2009

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard)  
2777 South Crystal Drive  
Arlington, VA 22202-4501

SUBJECT: Anthium AGP  
EPA Registration # 9150-12

"Notification of label change per PR Notice 2007-4.

Dear Sir or Madam:

In accordance with PR Notice 2007-4, International Dioxide Inc. is notifying the Agency of Storage and Disposal Language label language upgrades for the above referenced product. Attached please find the following documents supporting this notification:

- Application for Pesticide Registration (EPA form 8570-1) – dated 6/2/09
- One copy of the label with changes highlighted

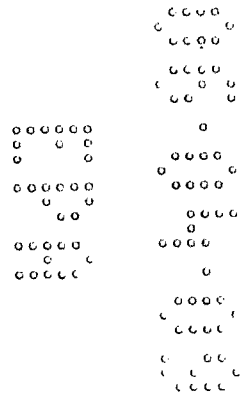
This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

Please contact me by phone at 302-695-1557 or by email at [bonnie.j.bieber@usa.dupont.com](mailto:bonnie.j.bieber@usa.dupont.com) if you have any questions.

Sincerely,

Bonnie J. Bieber  
Regulatory Coordinator

*attachments*



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[0001] – MASTER LABEL

# ANTHIUM AGP

[0002]

5% AQUEOUS STABILIZED CHLORINE DIOXIDE FOR POST-HARVEST TREATMENT OF POTATOES AND POTATO STORAGE CELLARS

[0003]

Active Ingredients

Chlorine Dioxide ----- 5.0%

Inert Ingredients ----- 95.0%

Total: 100.0%

**NOTIFICATION**  
Date Reviewed: 7/1/09  
Reviewed By: E. Berg/W.H.

[0004]

**KEEP OUT OF REACH OF CHILDREN**

[0005]

**CAUTION**

[0006]

See Side Panels for Additional Precautionary Statements

[0007]

## FIRST AID

### **If inhaled:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

### **If on skin or clothing:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

### **If in eyes:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

### **If swallowed:**

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

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Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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

[0008]  
EPA Reg. No. 9150-12

[0009]  
EPA Est. No. XXXXXX-YYY-ZZZ

[0010]  
NET CONTENTS \_\_\_\_\_ GAL.

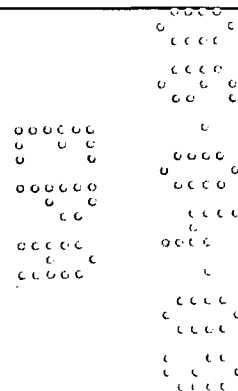
[0011]  
Manufactured For:  
INTERNATIONAL DIOXCIDE, INC.  
40 Whitecap Drive  
North Kingstown, RI 02852



ANSI/NSF 60  
DRINKING WATER  
TREATMENT ADDITIVES  
3R80  
Max. Use Level 28 mg/L

[0012]  
**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMAN & DOMESTIC ANIMALS**

[0013]  
CAUTION: Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.



[0014]

**Personal Protective Equipment**

Chemical-resistant gloves, goggles / face-shield and respirator (a NIOSH approved canister/cartridge respirator) must be worn during mixer-loader tasks associated with pre-storage application of Anthium AGP. Chemical-resistant gloves must be worn in all activities where the worker is placed in direct contact with either the wet treated potatoes during inspections or disease monitoring in the storage shed or the humidification water system/process water tank during cleaning or maintenance. Do not allow unprotected workers in the area to be exposed above the permissible exposure limit (PEL) of 0.1 ppm of chlorine dioxide for an 8-hour time-weighted average (TWA) or 0.3 ppm for any 15-minute short-term exposure limit (STEL). Do not allow high concentrations of chlorine dioxide to accumulate within a confined space.

[0015]

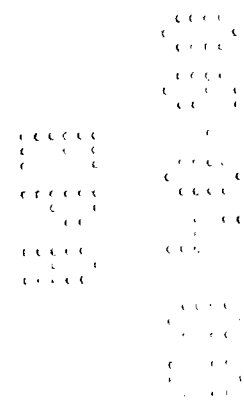
**Environmental Hazards**

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other 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 sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

[0016]

**Chemical and Physical Hazards**

Chlorine dioxide is a strong oxidizing agent. Contamination with other materials such as acids, chlorine, organic chemicals, etc. may cause a chemical reaction resulting in evolution of gaseous chlorine dioxide 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.



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[0017]

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Do not store with easily oxidizable materials, acids, reducers, and combustible material. Avoid heat or freezing conditions. Store upright and do not stack drums over two high on pallets or partially filled drums. Use of a drum pump is suggested. Keep drum 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 take care to prevent cross-contamination with other pesticides, fertilizers, food and feed.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

**CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container.** Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on it's side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip back and forth several times. Empty the rinsate into application equipment or mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

[0018]

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

[0019]

**DIRECTIONS FOR USE**

[0020]

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

[0021]

For Treatment of Late Blight and Other Potato Storage Diseases Using Anthium AGP for Suppression of the Microbial Population

[0022]

**A) Preparation of an Activated Solution**

1. Anthium AGP must be activated with a food-grade acid to pH 2.6 prior to dilution down to 200 or 400 ppm.
2. For a 10-gallon batch, add 9.2 gallons of water and 0.8 gallons of Anthium AGP. Then add 15 fl. oz. of 30% phosphoric acid or equivalent to attain a pH of 2.6. Let the mixture react for 1-6 hours. The Anthium AGP/phosphoric acid mixture will yield an activated solution containing 4,000 ppm available chlorine dioxide.
3. As an alternate preparation method, add 9.2 gallons of water and 0.8 gallons of Anthium AGP together. Then add 4.3 fl. oz. of 36% hydrochloric acid or equivalent to attain a pH of 2.6. Let the mixture react from 1-3 hours. The Anthium AGP/hydrochloric acid mixture will yield an activated solution containing 4,000 ppm available chlorine dioxide.
4. Prepare a 200 ppm available chlorine dioxide solution by diluting 1/2 part of the 4,000 ppm solution with 9 parts of water. Prepare an activated 400 ppm available chlorine dioxide solution by diluting 1 part of the 4,000 ppm solution with 9 parts of water.

[0023] – [OPT.]

**B) Application Rates for Potatoes Going Into Storage**

Spray 0.5 gallons of the activated 400 ppm available chlorine dioxide solution per ton of potatoes going into storage. Make one application to potatoes going into storage.



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[0024] – [OPT.]

**C) Application Rates for Stored Potatoes**

Either periodic or continual treatment of the humidification water systems for potatoes may be made.

For continual treatment of high-risk stored potatoes, apply an initial treatment of 200 ppm available chlorine dioxide (add 1 part of the activated 400 ppm chlorine dioxide solution per part of humidification water) as either a mist into the air stream or as a fog directly into the plenum. Following the initial treatment, do not exceed 50 ppm of available chlorine dioxide (1 part of the activated 400 ppm chlorine dioxide solution per 7 parts of humidification water).

For the periodic treatment of stored potatoes with unknown risk, a treatment of 200 ppm available chlorine dioxide (1 part of the activated 400 ppm available chlorine dioxide solution for every part of humidification water) may be applied as either a mist into the air stream or a fog directly into the plenum.

To reduce the amount of water added to the stored potatoes during fogging treatments, concentrations up to 400 ppm available chlorine dioxide may be applied into the air stream. Fogging treatments may not exceed 0.4 gallons of Anthium AGP per 500 tons of treated potatoes in any single application.

[0025]

**D) Limitations**

1. A maximum of one application may be made to potatoes going into storage. A maximum of five (5) applications per month may be made through the humidification system by either fogging or misting.
2. A potable water rinse is required on all treated potatoes prior to further processing.

