8/5/2003 9150-12

EPA Reg. Date of Issuance: Number: U.S. ENVIRONMENTAL PROTECTION AGENCY AUG - 5 2003 Office of Pesticide Programs Antimicrobials Division (7510C) 9150-12 1200 Pennsylvania Avenue, NW Washington, D.C. 20460 Term of Issuance: NOTICE OF PESTICIDE: Conditional <u>x</u> Registration \_\_\_\_\_ Reregistration Name of Pesticide Product: Anthium AGP (under FIFRA, as amended) Name and Address of Registrant (include ZIP Code): International Dioxcide, Inc. 554 Ten Rod Road North Kingston, RI 02852 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. 9150-12." 3. Submit two copies of the revised final printed label for the record. 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. Page 1 of 2 Signature of Approving Official: Date: AUG - 5 2003 S. Brennis, Product Manager 32 Robert

pe 176

Page 2 EPA Reg. No. 9150-12

The use that the Agency is accepting with this registration is for the storage of potatoes. Initially, the Agency considered issuing a Threshold Of Regulation (TOR), determination for the use of this product on stored potatoes, however, after careful evaluation by our scientific staff it was determined that there would be no residue of chlorine dioxide on the potatoes, so no food tolerance is required.

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

1/1

276

• >

AL.

0

**Precautionary Statements** 

Hazards to Humans and Domestic Animals 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.

#### Personal Protective Equipment

Chemical-resistant gloves, goggles/face-shield and respirator (a NIOSH approved canister/cartridge respirator) must be worn during mixerloader tasks associated with prestorage 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 8hour 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.

## **ANTHIUM AGP**

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

Active Ingredient	
Chlorine dioxide	5.0%
Inert Ingredients	<u>95.0%</u>
Total	100.0%

#### **KEEP OUT OF REACH OF CHILDREN**

#### CAUTION

See Side Panels for Additional Precautionary And First Aid Statements

EPA Reg. No. 9150-EPA Est. No. 9150-RI-01

NET WT: \_\_\_\_ Gal.

Manufactured by: International Dioxcide, Inc. North Kingston, RI 02852

#### **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.

#### **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.

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 warranties of fitness for a particular purpose or use.

ACCEPTED with COMMENTS - EPA Letter Dated:

AUG - 5 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 9150-12-

• >

.

•

FIRST AID	
If Inhaled	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
If on Skin or Clothing	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If Swallowed	<ul> <li>Call poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
Ha	ave a 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 gastic lavage.

### ACCEPTED with COMMENTS EPA Letter Dated:

## AUG - 5 2003

Under the Federal Insecticide, Fungicide, and Rodanticide Act as amended, for the pesticide, registered under EPA Reg. No. 9150-12-

q 0

7

#### **Directions for Use**

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

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

#### A) <u>Preparation of an Activated Solution</u>

1) Anthium AGP must be activated with a food-grade acid to pII 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/phosphoric 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  $\frac{1}{2}$  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.

#### 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.

#### **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.

#### D) Limitations

**C**)

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. **with COMMENTS** 

F EPA Letter Dated:

AUG - 5 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Ac. amended, for the posticide, registered under EPA Rog. No. 91 50-4

 $\omega$ 

0

· 5

· 5

•

 $\sigma$ 

0

#### 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: Triple rinse (or equivalent). 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.

#### → ACCEPTED with COMMENTS ► EVA Letter Dated:

# AUG 5 2003

Under the Federal Insecticide, Funder and Normalized States amongs in the particities regulators and the particities regulators and the particities