9150-7 04/30/2008 1/2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

APR 30 2008

Thomas C. McEntee
International Dioxcide, Inc.
40 Whitecap Drive
North Kingstown, RI 02852

Subject: Adox 8125
EPA Registration Number 9150-7
Application Date: January 3, 2008

Dear Mr. McEntee:

The Agency has reviewed the application for label amendment you have submitted in accordance with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). In summary, the addition of the use for "nitrification" control is approved with the following comments:

"Use of this product in public water systems (drinking water utilities) triggers monitoring and compliance requirements under 40 CFR 141. Among other requirements the user of this product is required to conduct daily monitoring for chlorine dioxide and chlorite at the point of addition and to comply with standards for chlorine dioxide and chlorite. The user of this product is required to contact State or primary drinking water programs to determine specific monitoring, compliance, reporting, and record-keeping requirements in order to avoid adverse human health effects and/or non-compliance with such requirements."

Also it is recommended that you contact NSF International, Water Quality Association (or another third party certifier) to receive certification under standard 60/61. This is because most states require that chemicals used in drinking water treatment be certified.

Enclosed is a copy of our review, D 349533 and a copy of your approved with comments label. Please submit a copy of the finished label to us for our files. Should you have any questions or comments concerning this letter, please contact Tom Luminello at (703) 308-8075.

Sincerely,

Emily Mitchell

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

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Highly corrosive, causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or clothing. May be fatal if swallowed. Do not get on bare hands. Wear goggles or face shield and neoprene gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing at once to avoid fire and wash separately before reuse. Avoid breathing fumes.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and other 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 Eliminations 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 your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS

DANGER: This product becomes a fire hazard if allowed to dry. Mix or dilute into water only. Strong oxidizing agent. Mixing with acids, or alcohol, or other chemicals may cause evolution of chlorine and chlorine dioxide gas which is toxic and may be explosive. Combustible materials contaminated with ADOX® 3125 may burn rapidly. Keep handling areas and equipment clean and free of oils, greases, combustibles, and dust. Do not contaminate this product with garbage, dirt, organic matter, paint products, solvents, acids, vinegar, beverages, oils, pine oils, dirty rags, or other foreign matter. Do not expose to hot surfaces, sparks or open flame.

STORAGE AND DISPOSAL

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

STORAGE: Store upright in cool, dry and well-ventilated place. Avoid excessive heat or freezing. Protect from contact with other chemicals; avoid storage with organic chemicals, acids, reducers and combustible material. Keep container tightly closed when not in use. In case of spills, flush and drain promptly to sewer with large quantities of water. Do not allow liquid to dry out because this could present a fire hazard. If fire occurs, extinguish with large volume of water.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate 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 Hazardous Waste representative 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.

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

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.

DIRECTIONS FOR USE

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

METHOD OF APPLICATION

Use ADOX® 3125 with a Chlorine Dioxide Generator to generate an aqueous chlorine dioxide solution. Alternatively, ADOX® 3125 can be used to form acidified sodium chlorite solutions by mixing the product with a Generally Recognized as Safe (GRAS) acid such as citric, phosphoric, hydrochloric or acetic acid.
Chlorine Dioxide Generators react ADOX® 3125 with either chlorine or a chlorine solution and hydrochloric acid. The generated chlorine dioxide solution can be added at a point in the system to be treated which ensures uniform mixing. Follow all instructions in the chlorine dioxide generator manual carefully. Always prepare and use chlorine dioxide solutions in a well-ventilated area.

APPLICATIONS

POTABLE WATER AND WASTEWATER DISINFECTION: For most municipal and other potable water systems, a chlorine dioxide residual concentration up to 2.0 ppm is sufficient to provide adequate disinfection. Typically, the target residual concentrations range from 0.20 – 0.75 ppm. Monitor the distribution system to ensure that the chlorite concentration does not exceed its maximum contaminant level (MCL) of 1 mg/L and that chlorine dioxide does not exceed its maximum residual disinfection level (MRDL) of 0.8 mg/L. For wastewater and sewage applications, residual chlorine dioxide concentrations up to 5.0 ppm are generally adequate.

Adox® is a registered trademark of International Dioxcide Inc., a DuPont Company

20070926 ADOX 3125 - mstr 07mar2002 - rev 08Feb2007 Nitrif.doc

ADOX® 3125

25% AQUEOUS SODIUM CHLORITE

PRECURSOR FOR CHLORINE DIOXIDE AND ACIDIFIED CHLORITE SOLUTIONS

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

DANGER!

SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Active Ingredient: Sodium Chlorite	**25%**
Inert Ingredients	**75%**
TOTAL:	**100%**

First Aid

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 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 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 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.

For 24 hour emergency information on this product, call **Chemtrec** at **1-800-424-9300** (US, Canada, Puerto Rico, Virgin Islands) 1-703-527-3887 (All Other Areas)
Medical Emergency 1-800-441-3637 (outside U.S. 302-774-1000)

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.

E.P.A. REG No. 9150-7 **E.P.A. EST.NO. XXXXX-YY-ZZZ** ☐

NET CONTENTS _____ GAL.

ACCEPTED with COMMENTS In EPA Letter Dated: APR 30 2008
CLASSIFIED UL WATER QUALITY

Under Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide reg. no. registered under

9150-7

id INTERNATIONAL DIOXCIDE, INC. A DuPont Company

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

Manufactured for:
INTERNATIONAL DIOXCIDE, INC.
40 Whitecap Drive, North Kingstown, RI 02852

FOOD PLANT PROCESS WATER IN F
BREWERIES. For microbial control in typical
hydrocoolers, and retort cooling water, apply AI
dioxide residual concentration ranging from 0.25

Chlorine dioxide generated from ADOX® 3125
and peeled potato products without a subseque
residual oxidants meet the residual limitations of

Residual concentrations up to 5.0 ppm chlorine
fruits and vegetables although a final potable wat

Potatoes including those which have been peeled
concentration of up to 5.0 ppm provided this is fo

POULTRY PROCESSING WATER: Use ADO
water used in poultry processing in an amount n
method.

AQUEOUS DISINFECTION SYSTEMS FOR
ADOX® 3125 exceeds 5.0 ppm, a potable water
and chemical quality of the potable water.

GENERAL INDUSTRIAL PROCESS WATER
SYSTEMS, AND RECIRCULATING COOLIN
chlorine dioxide residual concentration ranging be

ONCE THROUGH COOLING WATER SYST
3125 as directed in commercial and industrial on
or slug basis depending on the degree of system fo

SLUG DOSE: Add 42 to 210 lbs. of chlorine dio

CONTINUOUS DOSE: Add 2 to 16 lbs. of chlor

USE OF ACIDIFIED SODIUM CHLORITE S
Pursuant to 21 C.F.R. Part 173.325, the Food an
chlorite solutions as antimicrobial agents for poul
these applications are listed below.

TO CONTROL THE MICROBIAL POPULATI
having a concentration of sodium chlorite betwe
water for 50 ppm or 1 gallon of ADOX® 3125
between 2.8 and 3.2 with any GRAS acid. This
parts.

TO CONTROL THE MICROBIAL POPULATI
of sodium chlorite between 500 and 1200 ppm. D
chlorite or 1 gallon ADOX® 3125 to 208 gallons
2.9 with any GRAS acid. Spray or dip the carcas
dip solution when applied to poultry meat, organs

TO CONTROL THE MICROBIAL POPULATI
ORGANS: Prepare a solution having a con
gallon of ADOX® 3125 to 500 gallons with w
gallons with water for 1200 ppm. Lower this
sprayed or dipped into the solution.

TO CONTROL THE MICROBIAL POPULATI
SUCH USE IS PRECLUDED BY THE USDA
used at levels between 500 and 1200 ppm
comminuted, or formed meat products (unle
packaging of the food for commercial pu
manufacturing practice. Dilute 1 gallon of AD
gallon of ADOX® 3125 with 208 gallons for 12
to 2.9 with any GRAS acid. This solution is ap

TO ELIMINATE THE GROWTH OF MICRO
SPOILAGE ON RAW AGRICULTURAL CO
solution having a concentration of between 5
3125 diluted to 500 gallons (500 ppm) or 20
between 2.3 and 2.9 with any GRAS acid. Th
treatment must be followed by a potable wate

POTABLE WATER SYSTEMS (C
Nitrification: to control the build up
chemical metering system to add this
sodium chlorite to control nitrification
the MCL of 1.0 mg/L for chlorite ion.

Add comment f