9804-9

06/15/2010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

JUN 1 5 2010

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

James P. Ringo Director of Regulatory Affairs Bio-Cide International, Inc. 2650 Venture Drive Norman, OK 73069

FILE COPY

Subject: Prooxine EPA Reg. No. 9804-9 Application Dated: May 19, 2010 Receipt Date: May 21, 2010

Dear Mr. Ringo:

The following notification submitted in connection with registration under the provisions of PR Notice 98-10, Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) section 3(c)9 is acceptable with comments.

Proposed Notification:

Revised Container Disposal Section per PR Notice 2007-4

Comments:

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

- Change the statement "Triple rinse container promptly after emptying." to read "Triple rinse container (or equivalent) promptly after emptying."
- 2. Change the statement "...to for later use or disposal." to read "...or store rinsate for later use or disposal."
- Add the statement "Turn the container over onto its other end and tip it back and forth several times." preceding the statement "Empty the rinsate..."

This application for notification to revise the product label, as referenced above, is acceptable with comments. A copy has been placed in our records for future reference. Should you have any questions or comments concerning this letter, please contact me at <u>Henson.Wanda@epa.gov</u> or call (703) 308-6345.

Sincerely,

Wanda Henson

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Acting Product Manager (32) Regulatory Management Branch II Antimicrobials Division (7510P)

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Resubmission in res	onse to Agency letter	dated	—	"Me Too" App						
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May 19, 2010

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: ProOxine®, EPA Registration No. 9804-9 Notification of label changes per PR Notice 2007-4

Dear Mrs. Henson:

The enclosed EPA Form 8570-1 is submitted for amendment by notification of the ProOxine® label, EPA Reg. No. 9804-9. The purpose of the notification is to bring the ProOxine® label into compliance with the requirements of Pesticide Registration Notice (PR) 2007-4: Labeling Revision Required by the Final Rule "Pesticide Management and Disposal; Standards for Pesticide Containers and Containment."

In accordance with PR 2007-4, please find the enclosed:

EPA Form 8570-1, with attachments, and

One (1) copy of the new label with the changes highlighted.

If you have any questions or need for additional information on this subject, please call me at 405-329-5556 or email me at <u>JRingo@bio-cide.com</u>.

Sincerely:

amen M. Kingo

James P. Ringo Director of Regulatory Affairs

Enclosures:

EPA Form 8570-1, dated May 19, 2010
 Highlighted copy of new label

Required statement to amend label by notification in accordance with PR Notice 2007-4:

"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."

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ProOxine[®]

Raview

Active ProOxine[®]

DISINFECTANT FUNGICIDAL - BACTERICIDAL

FOOD PROCESSING PLANTS BOTTLING PLANTS INDUSTRIAL USE

Active Ingredient: Chlorine Dioxide5%
Other Ingredients95%
TOTAL100%

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

STORE IN COOL DARK PLACEKEEP FROM FREEZINGE.P.A. Reg. No. 9804-9E.P.A. Est. No. 9804-OK-1

Bio-Cide International, Inc. P.O. Box 722170 Norman, Oklahoma 73070

Net Contents: 5 Gal. 30 Gal. 55 Gal. 330 Gal.

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PROPER ACTIVATION OF ProOxine®

The active biocidal component of the ProOxine[®] system is free chlorine dioxide. Unactivated ProOxine[®] in the neutral to mildly alkaline pH range is bacteriostatic. For higher level microbial control, such as disinfection and sanitation, activation of ProOxine[®] is required to generate free chlorine dioxide. The use of citric acid as an activator is specified in most ProOxine[®] label applications. Alternatives to citric acid for activation include organic acids, such as acetic acid, and inorganic acids such as phosphoric, hydrochloric, and sulfuric acids. Activation equivalent to that of citric acid may be achieved by adjusting the ProOxine[®] solution to pH 2-3 with an alternative acid. The activated ProOxine[®] is then diluted to the required use concentration in accordance with label instructions. For food processing applications only food grade activator acids may be used. Bio-Cide International, Inc. or your ProOxine[®] distributor can guide you in proper activation techniques.

Activation and Dilution of ProOxine[®] Sanitizing Solutions

For each five (5) gallons of sanitizing solution measure the required volume of ProOxine[®] into a clean vessel in a well ventilated area. Add the required amount of activator acid, stir and allow to dissolve for five (5) minutes activation time for citric acid or two (2) minutes for phosphoric acid. Avoid breathing any fumes that may be produced. After the appropriate activation time, dilute with five (5) gallons of potable water.

<u>Concent</u>	ration	Fluid Ounce <u>Per Five (</u>	s of ProOxine [®] 5) gallons	Citric Acid Activate	<u>or</u>
50	ppm	²/ ₃	fl. oz.	1.0 tsp/5.0 grams	
100	ppm	1 ¹ / ₃	fl. oz.	2.0 tsp/10 grams	
200	ppm	2 ²/ ₃	fl. oz.	4.0 tsp/20 grams	

<u>Conce</u>	entration	Fluid Ounces of ProOxine [®] <u>Per Five (5) gallons</u>	33% Phosphoric Activator
50	ppm	²/ ₃ fl. oz.	1⁄4 fl. oz/7.5 ml
100	ppm	1 ¹ / ₃ fl. oz.	½ fl. oz/15 ml
200	ppm	2 ²/₃ fl. oz.	1.0 fl. oz/30 ml



IN FOOD PROCESSING PLANTS SUCH AS FISH, POULTRY, MEAT AND IN RESTAURANTS, DAIRIES, BOTTLING PLANTS AND BREWERIES:

AS A TERMINAL SANITIZING RINSE FOR STAINLESS STEEL AND OTHER HARD NONPOROUS FOOD CONTACT SURFACES SUCH AS TANKS, TRANSFER LINES AND OTHER FOOD PROCESSING EQUIPMENT IN ACCORDANCE WITH 40 CFR 180.940 (b) (c).

DIRECTIONS FOR USE:

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

1) All gross food particles and soil should be removed prior to sanitizing by use of a pre-flush, pre-scrape or pre-soak treatment.

2) Clean tank, line or surface thoroughly using a suitable detergent and rinse with clean potable water before sanitizing.

3) Preparation of Sanitizing Solution. Prepare an activated working solution containing 50 to 200 ppm available chlorine dioxide according to the activation and dilution chart or by using automated activation equipment.

4) To apply: Fill, flush, immerse or spray tank, line, equipment or food contact surface with active solution making sure surface area is thoroughly wet for at least one (1) minute. After sanitizing, drain tank, line or equipment and allow to air dry. Fresh sanitizing solution should be made up daily or more often if solution becomes diluted or soiled.

FOR USE AS A SANITIZING SOLUTION ON FOOD BEVERAGE CONTAINERS IN ACCORDANCE WITH FDA FOOD CONTACT NOTIFICATION (FCN) 787.

DIRECTIONS FOR USE:

1) Preparation of Sanitizing Solution. Prepare an activated working solution containing 50 to 200 ppm available chlorine dioxide according to the

activation $ar_{k,z}$ illution chart or by using automated activation equipment.

2) To Apply: fill, flush, immerse, circulate, or spray sanitizing solution into the container and adequately drain before filling.

TO CONTROL THE BUILDUP OF ODOR AND SLIME FORMING BACTERIA IN PROCESS WATERS FOR VEGETABLE AND FRUIT RINSES AND ASSOCIATED TANKS, FLUMES AND LINES.

DIRECTIONS FOR USE:

1) All tanks, flumes and lines etc., should be thoroughly cleaned when possible with a suitable detergent and completely rinsed using clean potable water prior to treatment.

2) Preparation of solution: Chill tanks, rinse tanks, flumes and lines may be batch loaded at start up; process waters should be treated by adding ProOxine[®] at five (5) ppm, available chlorine dioxide to potable water (0.013 fl. oz. per gallon of process water). In order to insure accurate delivery a 1:25 dilution of the ProOxine[®] concentrate should be made and injected via a chemical feed pump or other injector at the feed rate of three and one quarter (3 ¼) fluid ounces per ten (10) gallons of process water maintained. Make up fresh solutions daily.

3) Optional activated solutions: If heavy use of process water is expected or if slime buildup is extreme, an activated solution of ProOxine[®] at five (5) ppm is recommended. Using Bio-Cide Activation Equipment activate ProOxine[®] to a dilute solution of less than 4000 ppm available chlorine dioxide and inject via a chemical feed pump or other injector at the feed rate of five (5) ppm per gallon of process water maintaine[®]. Make up fresh solution daily.

4) After treatment of fruits and wegeta الله follow with a potable water rinse.

NOTE: Chemical feed pumps and injectors must be chlorine dioxide resistant for best operation. Available chlorine dioxide levels should be confirmed using a Bio-Cide test kit or test strips, available from your local ProOxine[®] distributor.

PRE-TREATMENT FOR UNCUT, UNPEELED FRUITS AND VEGETABLES.

DIRECTIONS FOR USE:

1) Before treatment, whole fruits and vegetables should be washed and thoroughly rinsed with clean potable water.

2) Preparation of solution: Chill tanks, rinse tanks, flumes and lines may be batch loaded at start up; process waters should be treated by adding ProOxine[®] at five (5) ppm, available chlorine dioxide to potable water (0.013 fl. oz. per gallon of process water). In order to insure accurate delivery a 1:25 dilution of the ProOxine[®] concentrate should be made and injected via a chemical feed pump or other injector at the feed rate of three and one quarter (3 ¼) fluid ounces per ten (10) gallons of process water maintained. Make up fresh solutions daily.

3) Dip product in treatment solution for about ten (10) to twenty (20) seconds, then follow with a potable water rinse.

FOR USE AS A LUBE ADDITIVE TO CONTROL BACTERIAL SLIME AND ODOR ON MOVING CONVEYORS AND CHAINS IN FOOD PROCESSING FACILITIES.

DIRECTIONS FOR USE:

1) Prior to beginning application of ProOxine[®] to the diluted lube mixture, all conveyors, lube lines, spray nozzle heads, conveyor surfaces, and other associated structures should be thoroughly cleaned and sanitized.

2) ProOxine[®] should be added to the water dilution step of the lube system just prior to its injection into the distribution system. Addition of ProOxine[®] into the lube/water mixture should be at the rate of 0.25 fl. oz. to 0.50 fl. oz. per 10 gallons of diluted lube. This will result in a final ProOxine[®] concentration of between 10 and 20 ppm in the lube solution.

3) For best results use with natural (fatty acid, soap based) lubricant products. For advice on lube compatibility contact your BCI distributor.

TO DISINFECT WALLS, CEILINGS, AND FLOORS.

DIRECTIONS FOR USE:

1) Before disinfection, all gross filth must be removed from areas to be disinfected and thoroughly cleaned with a suitable detergent followed by a clean, potable water rinse.

2) Preparation of active disinfecting solution (500 ppm ClO₂): Place 1 1/3 fl. oz. of ProOxine[®] concentrate per gallon of working solution into a clean, plastic pail and add 10 grams (2 teaspoons) of Bio-Cide Activator Crystals or food grade citric acid of no less than 99% purity. Prepare in a well ventilated area; avoid breathing any fumes which may be produced while crystals are dissolving. Allow five (5) minutes reaction time for crystals to dissolve completely. To this solution, add one (1) gallon of clean, potable water. This will yield a working solution containing 500 ppm of available chlorine dioxide.

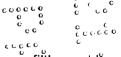
3) To apply: Spray disinfectant solution onto surface to be disinfected using a suitable spraying device and making sure that the area is thoroughly wet for at least ten (10) minutes. Active solutions may be irritating when breathed; therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions. After application, allow to air dry. Treat as required. Always apply freshly made solutions. Never reuse activated solutions.

TO DISINFECT WALLS, CEILINGS AND FLOORS OF POULTRY PROCESSING PLANTS.

SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA A.

KILLS AVIAN INFLUENZA A: ON PRE-CLEANED ENVIRONMENTAL SURFACES.

Directions for Use:



1) Before disinfection, all gross filth must be removed from areas to be disinfected ard con thoroughly cleaned with a suitable detergent followed by a clean, potable water rinse.

2) Preparation of active disinating solution (500 ppm ClO₂): Place 1 1/3 fl. oz. of ProOxine[®] concentrate per gallon of working solution into a clean, plastic pail and add ten (10) grams (2 teaspoons) of Bio-Cide Activator Crystals or food grade citric acid of no less than 99% purity. Prepare in a well ventilated area; avoid breathing any fumes which may be produced while crystals are dissolving. Allow five (5) minutes reaction time for crystals to dissolve completely. To this solution, add one (1) gallon of clean, potable water. This will yield a working solution containing 500 ppm of available chlorine dioxide.

3) To apply: Spray disinfectant solution onto surface to be disinfected, using a suitable spraying device and making sure that the area is thoroughly wet for at least ten (10) minutes. Active solutions may be irritating when breathed, therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions. After application allow to air dry. Treat as required. Never reuse activated solutions.

To sanitize clean shell eggs intended for food or food products.

Directions for Use:

1) Preparation of sanitizing solution: Prepare an activated working solution containing 100-200 ppm available chlorine dioxide according to the activation chart.

2) Spray eggs thoroughly with activated solution making sure surface area is thoroughly wet for at least one (1) minute and allow to drain. Solution must be equal to or warmer than the eggs, but not to exceed 130° F.

3) Eggs that have been sanitized with this chlorine dioxide compound may be broken in the manufacture of egg products without a prior potable water rinse. Eggs must be reasonably dry before casing or breaking. Never reuse activated solutions.

TO CONTREST THE BUILD-UP OF ODOR AND SLIME FORMING BACTERIA IN ICE MAKING PLANTS AND MACHINERY.

DIRECTIONS FOR USE:

1) Ice making machinery should be disassembled and thoroughly cleaned using a suitable detergent followed by a potable water rinse.

2) Preparation and application of solution: The ProOxine[®] solution should be applied to the incoming water line of the ice machine via a chemical feed pump or injector system and proportioned at the rate of 6 fl. oz. per 100 gallons of potable water (20 ppm available CIO₂)

TO CONTROL ODOR AND SLIME FORMING BACTERIA IN COOLING AND WARMING WATERS, SUCH AS CANNING RETORT AND PASTEURIZER COOLING WATERS, USED TO DECREASE OR INCREASE PACKAGED PRODUCT TEMPERATURE BY IMMERSION IN OR BY SPRAYING WITH THE TREATED PROCESS WATERS.

DIRECTIONS FOR USE:

1) All tanks, tunnels, conveyor chains, heat exchangers, heat exchange towers, lines, sprav bars and nozzles should be thoroughly cleaned, when possible, and completely rinsed using clean, potable water prior to treatment. 2) Preparation of solution: Water systems including the cooling or warming tanks or spray systems, towers, lines and all water containing parts of the system may be batch loaded at start up with 12.8 fl. oz. ProOxine[®] per one thousand (1000) gallons of potable water (5.0 ppm available ClO₂). To maintain the 5.0 ppm available CIO₂ in the water system a timed or electronically controlled chemical feed pump or injector system can be used for additions to the system or for treating the make-up water. Make up new ProOxine[®] solutions daily. Optional activated solution: If heav? use of cooling or warming water, or introduction of additional bacteria loads is expected or if stime buildup is heavy, an additional activation step may be used in preparation of solution. $\frac{c \cdot c \cdot c}{c \cdot c \cdot c}$

3) Preparation of activated s ion: Prepare in a well ventilated area, avoid breathing any fumes which may be produced while crystals are dissolving. For each one thousand (1000) gallons of system water to be treated, measure out 12.8 fl. oz. of ProOxine® and pour into a clean plastic container, pail or drum. To this ProOxine[®] amount, add Bio-Cide Activator Crystals or food grade citric acid of no less than 99% purity, at the rate of 3.3 ounce (95 grams) crystals per 12.8 fl. oz. of ProOxine®. Allow five (5) minutes reaction time for crystals to dissolve. Cooling or warming water systems may be batch loaded at start up using 12.8 fl. oz. of the prepared solution per one thousand (1000) gallons of potable water (5.0 ppm available ClO₂). Batch or timed additions of the prepared solution can be made or an electronically controlled chemical feed pump or injector system can be used for additions of the prepared solution to the process water to maintain 5.0 ppm available CIO₂. Make up new ProOxine[®] solutions daily.

TO CONTROL ODOR AND SLIME FORMING BACTERIA BUILD-UP IN COMMERCIAL WATER FILTRATION SYSTEMS, SAND BEDS, GRAVEL BEDS AND CHARCOAL FILTERS WITH ACCESSIBLE SERVICE HATCHES.

DIRECTIONS FOR USE:

1) Drain all existing water from sand and carbon filters and rinse once with clean, potable water. Fill sand filter with potable water and adjust pH of water to 6.0 using citric acid or equivalent pH adjuster.

2) To prepare solution: Measure out eight (8) fl. oz. of ProOxine[®] concentrate for each ten (10) gallons of filter system volume (300 PPM available ClO₂) and add to the sand filter through access hatch. Fill system with clean, potable water and circulate system 30 minutes. Allow system to soak two (2) to three (3) hours. After treatment, drain system and rinse with clean, potable water until residue is no longer detectable using the Bio-Cide test kit and when pH is normal. TO CONTREE THE BUILD-UP OF ODOR AND SLIME FORMING BACTERIA IN STAINLESS STEEL TRANSFER LINES AND ON-LINE EQUIPMENT SUCH AS HYDRO-COOLERS, PASTEURIZERS AND THE LIKE OVERNIGHT AND OVER WEEKENDS.

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DIRECTIONS FOR USE:

1) Clean equipment or line thoroughly using a suitable detergent followed by a clean, potable water rinse before treatment.

2) Preparation and application of solution: For each ten (10) gallons of volume in lines and/or equipment, add 1/2 oz. of ProOxine[®] (20 PPM available ClO_2) to potable make up water. Mix and fill lines and equipment overnight. Drain and allow to air dry just prior to next run start-up.

FOR USE AS A SLIMICIDE IN PULP AND PAPER WHITEWATER SYSTEMS.

DIRECTIONS FOR USE:

1) For initial start-up or for severe slime contamination ProOxine[®] should be prepared by the addition of one pound of citric acid activator per 50 gallons of ProOxine[®] or by addition of other suitable acid to adjust the ProOxine[®] solution to approximately pH 7.0.

2) The activated ProOxine[®] solution should then be proportioned into the whitewater system by means of a suitable metering pump at a continuous rate to produce an in-stream concentration of 1.25 - 5.0 ppm. This concentration is obtained by proportioning the

ProOxine[®] into the system at a rate of 3.2 -12.8 fluid ounces per 1,000 gallons of process water. The system should be monitored by use of a Bio-Cide International, Inc. Test Kit, or other suitable means and feed rate adjustments made² ²/_c accordingly. After slime control is established the ProOxine[®] feed rates may be lowered to ²/_c maintain the desired level of slimte control.³/_c



FOR ENCLOSED AND RECIRCULATING COOLING WATER SYSTEMS.

DIRECTIONS FOR USE:

1) Severely fouled systems should be cleaned prior to treatment.

2) For initial start-up or heavy microbial contamination ProOxine[®] should be added to the cooling water system at a rate of one gallon of ProOxine[®] per 10,000 gallons of system water. This is equivalent to 5.0 ppm as available chlorine dioxide. Dosage should be repeated daily until microbial control is achieved.

3) When microbial contamination is under control the concentration and frequency of treatment may be reduced to levels adequate to maintain the desired level of microbial control.

FOR MICROBIAL CONTROL IN SWEETWATER COOLING SYSTEMS.

1) ProOxine[®] may be batch loaded or metered into sweetwater cooling systems at the rate of 13 fluid ounces per 1,000 gallons of sweetwater to produce an in stream concentration of 5.0 ppm

2) ProOxine[®] concentrations should be monitored using a Bio-Cide test kit to maintain a 5.0 ppm concentration.

IN ANIMAL REARING AND CONFINEMENT FACILITIES

TO DISINFECT COMMERCIAL ANIMAL CONFINEMENT FACILITIES SUCH AS POULTRY HOUSES, SWINE PENS, CALF BARNS AND KENNELS

Directions for Use:

1) Remove all animals and feed from premises, vehicles, enclosures, coops and crates.

2) Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. 3) Empty all troughs, racks and other feeding and watering appliances.

4) Thoroughly clean all surfaces with soap or detergent and rinse with water.

5) Preparation of active disinfecting solution (500 ppm ClO₂): Place 1 1/3 fl. oz. of ProOxine[®] concentrate per gallon of working solution into a clean, plastic pail and add ten (10) grams (2 teaspoons) of Bio-Cide Activator Crystals or food grade citric acid of no less than 99% purity. Prepare in a well ventilated area; avoid breathing any fumes which may be produced while crystals are dissolving. Allow five (5) minutes reaction time for crystals to dissolve completely. To this solution, add one (1) gallon of clean, potable water. This will yield a working solution containing 500 ppm of available chlorine dioxide.

6) To apply: Using commercial sprayer, saturate all surfaces with the activated ProOxine[®] solution for a period of ten (10) minutes. Active solutions may be irritating when breathed, therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used for removing litter and manure. After treatment, ventilate buildings, coops, or other enclosed spaces and allow to air dry. Repopulate only when solution has dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before use.

TO DISINFECT POULTRY HOUSES

Special Instructions for Inactivating Avian Influenza A.

Kills Avian Influenza A on pre-cleaned وَالْعَامَةُ اللَّهُ اللَّهُ الْمَالِي مَالِي الْمَالِي الْمَالْيَ الْمَالِي الْمَالِي مَالْيَ الْمَالْيُلْمَالِي الْمَالِي الْمَالْيَ الْمَالْيَالِي الْمَالِي الْمَالِي الْمَالِي الْمَالِي مَالْيَالِي مَالِي مَالْيَالِي مَالْيَالِي مَالِي مَالْيَالِي مَالِي مَالْيَالِي مَالِي مَ

Directions for Use:

1) Remove all poultry and feed from pressives, vehicles, enclosures, coops and crates.

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2) Remove all litter and drop Js from floors, walls and surfaces of facilities and fixtures occupied or traversed by poultry.

3) Empty all troughs, racks and other feeding and watering appliances.

4) Thoroughly clean all surfaces with soap or detergent and rinse with water.

5) Preparation of active disinfecting solution (500 ppm ClO₂): Place 1 1/3 fl. oz. of ProOxine[®] concentrate per gallon of working solution into a clean, plastic pail and add ten (10) grams (2 teaspoons) of Bio-Cide Activator Crystals or food grade citric acid of no less than 99% purity. Prepare in a well ventilated area; avoid breathing any fumes which may be produced while crystals are dissolving. Allow five (5) minutes reaction time for crystals to dissolve completely. To this solution, add one (1) gallon of clean, potable water. This will yield a working solution containing 500 ppm of available chlorine dioxide.

6) To apply: Using commercial sprayer, saturate all surfaces with the activated ProOxine® solution for a period of ten (10) minutes. Active solutions may be irritating when breathed, therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraving these solutions. Immerse all equipment used in handling and restraining animals as well as forks, shovels and scrapers used for removing litter and droppings. After treatment, ventilate buildings, coops, or other enclosed spaces and allow to air dry. Repopulate only when solution has dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before use.

TO CONTROL THE BUILD-UP OF ODOR AND **SLIME FORMING BACTERIA IN ANIMAL** CONFINEMENT AREAS.

Directions for Use:

1) Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, cases and other facilities and fixtures occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with clean water.

2) Preparatie of solution: Place 2.6 fl. oz. ProOxine [®] concentrate into a clean, plastic container. Dilute concentrate with one (1) gallon clean, potable water.

3) To apply: Using a commercial sprayer, saturate all surfaces with the ProOxine[®] solution.

TO CONTROL THE BUILD UP OF SLIME AND **ODOR CAUSING BACTERIA IN FEED** WATERS.

Directions for Use:

1) Feed water should be treated at the rate of 0.4 fl. oz. ProOxine[®] per 30 gallons of water (5 ppm available chlorine dioxide) and may be injected or batch loaded.

2) Feed water storage tanks should be sufficiently sealed to prevent outside contamination and direct sunlight.

FOR SANITIZING INDUSTRIAL AND FUEL ETHANOL FERMENTERS AND ASSOCIATED **TRANSFER LINES, TANKS, HEAT EXCHANGERS AND OTHER PROCESSING** EQUIPMENT:

Directions for Use:

1) All equipment surfaces should be pre-cleaned prior to sanitizing.

2) Preparation of sanitizing solution. Prepare an activated working solution containing 50 to 250 ppm available chlorine dioxide according to the activation and dilution chart or by using automated activation equipment.

3) To apply: Fill, flush, immerse, or spray the fermenter, associated lines, and equipment with active solution making sure that surface is thoroughly wet for at least one (13) minute After sanitizing the equipment should be drained prior 00000 6 6 6 6 6 6 6 6 to use.

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TO CONTROL BACTERIA C D SLIME IN OIL WELLS AND PETROLEUM PRODUCING SYSTEMS

Directions for Use:

Prepare ProOxine[®] in a well ventilated area and avoid breathing any fumes which may be produced during activation.

1) Prepare a working solution of 5,000 ppm by diluting each gallon of ProOxine[®] to be used with nine (9) gallons of fresh water.

2) Reduce the pH of the working solutions to pH 2-3 with an inorganic acid such as phosphoric, hydrochloric, sulfuric or other equivalent acid to activate.

3) Proportion one (1) part of the above activated solution into each 150 parts of injection water.

4) Monitor microbial content of the water and increase or decrease the addition rate of the working solution as necessary.

TO CONTROL THE SPREAD OF LATE BLIGHT, SOFT ROT, DRY ROT, SILVER SCURF, RING ROT, PINK ROT, BLACK SCURF AND OTHER TUBER DISEASE CAUSING ORGANISMS IN POTATO STORAGE SHEDS:

DIRECTIONS FOR USE:

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

Dilution of ProOxine[®] to 2% Solution

For all potato applications, the 5% ProOxine[®] solution must be diluted to 2% solution prior to activation. Dilute 2 parts of ProOxine[®] with 3 parts of water to obtain a 2% solution. 2 gallons of ProOxine[®] + 3 gallons of water = 2% solution.

Activation of 2% Solution

Prior to application, the 2% solution must be activated by addition of a food grade acid in order to generate free chlorine dioxide. See below for directions on activation.

FOR THE TAL ATMENT OF WATER USED TO SPRAY OR RINSE POTATOES PRIOR TO STORAGE.

1) Activation:

For piling applications, activate 5 gallons of 2% solution with 25 oz. (1.6 lbs.) of citric acid (99% fine granular), or 7.5 fl. oz. of 75% phosphoric acid. Wait 30 minutes.

2) Dilution:

Dilute activated 2% solution to 400 ppm. 5 gallons of 2% solution + 250 gallons of water = 400 ppm solution.

3) Apply 400 ppm solution directly on tubers going into storage using any appropriate means such as spraying or misting. For small volume applications, refer to the Technical Data Sheet.

FOR THE TREATMENT OF HUMIDIFICATION WATER TO CONTROL TUBER DISEASE CAUSING ORGANISMS ON STORED POTATOES.

1) Activation:

For humidification applications, activate 5 gallons of 2% solution with 7.5 oz. (0.47 lbs.) of citric acid (99% fine granular), or 2.5 fl. oz. of 75% phosphoric acid. Wait 30 minutes.

2) Dilution:

Dilute activated 2% solution to 200 ppm. 5 gallons of 2% solution + 500 gallons of water = 200 ppm solution.

3) For continual treatment of high risk storage, an initial treatment up to 200 ppm may be added to the humidification as either a mist into the air stream, or as a fog directly into the plenums.

4) For the periodic treatment of storage with unknown risk, a treatment up to 200 ppm may be applied as either a mist into the air streast, sor as a fog directly into the plenging.

5) To reduce the amount cf-water added to the storage during fogging treatments, <u>secce</u> concentrations of up to 400 ppm of activated product may be applied to the air streams. <u>Owners/operators of potato storage</u> facilities <u>must ensure adequate protection of workers</u> and handlers, according to the following <u>guidance</u>.

PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment (PPE) that must be worn during mixer/loader task associated with pre-storage applications of ProOxine[®] includes: chemical-resistant gloves, goggles/face shield, and NIOSH approved canister/cartridge respirator rated for chlorine/acid gas vapors or specified for chlorine dioxide.

Chemical resistant gloves must be worn for all other handler activities in which the worker is placed in direct contact with either the wet treated potatoes (e.g., during inspection/disease monitoring in the storage shed) or the humidification water system/process water tank (during equipment cleaning/maintenance.)

RESTRICTIONS

Do not allow unprotected workers in the area to be exposed above the permissible exposure limit (PEL) of 0.1 ppm for an 8 hour time weighted average (TWA), or 0.3 ppm for any 15 minute short term exposure limit (STEL).

Avoid storing product under conditions in which it could evaporate to a crystalline salt.

All potatoes treated must have a potable rinse applied before further processing.

Avoid accidental contact with acids, chlorine compounds, hypochlorite (bleach), sulfur and sulfite compounds, phosphorus, organic solvents, and combustible/flammable materials. Exposure to acids or chlorine compounds can produce uncontrolled generation of chlorine dioxide. Do not allow chlorine dioxide to accumulate in confined spaces.

Waste water containing residual chlorine dioxide and its breakdown products like chlorite, chlorate, or chloride ions will not be transferred to public water ways but kept in an open pond or reservoir to go through aeration (which helps in the dissociation of chlorine dioxide) in the confines of the treatment facility and only discarded after the levels of these pesticides are equal to or lower than the ones recommended by EPA's Office of Water.

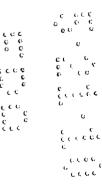
PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals: Harmful if swallowed. Harmful if inhaled. Avoid breathing vapor or spray mist. Remove contaminated clothing and wash clothing before reuse. Causes moderate eye irritation. Avoid contact with eyes and clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

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 local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

NOTE: Chemical feed pumps and injectors must be chlorine resistant for best operation. Available ClO₂ levels should be confirmed using a Bio-Cide Test Kit, available from your local ProOxine[®] distributor.



STORAGE AND DISPOSAL

Storage: Store in a cool dark area in original container. Avoid storage in direct sunlight. In case of spill, flood with water before discarding to drain. Do not contaminate water, food or feed by storage or disposal.

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:

{Text for nonrefillable containers that are 5 gallons or smaller}

Do not reuse or refill this container. Offer for recycling if available. Offer for reconditioning if appropriate. Triple rinse container promptly after emptying.

<u>Triple rinse as follows</u>: Empty the remaining contents into applications equipment or a mix tank and drain for ten seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Pour rinsate into application equipment or a mix tank to for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

CONTAINE ISPOSAL: Nonrefillable Container.

{Text for nonrefillable containers that are larger than 5 gallons.}

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Do not reuse or refill this container. Offer for recycling if available. Offer for reconditioning if appropriate. Triple rinse container promptly after emptying.

Triple rinse as follows: Empty remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this process two more times.

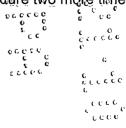
CONTAINER DISPOSAL: Refillable Container.

{Text for refillable liquid containers}

Refill this container with [ProOxine®] [Supplemental distributor brand name] only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into the application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into the application equipment or rinsate into the system. Repeat this procedure two more times.



	FIRST AID
lf inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
lf 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.
lf eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor.
	 Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor or going for treatment. For 24 hour emergency information on this product call NPIC at 1-800-858-7378 For 24 hour transportation emergency information on this product call Chemtrec at 1-800-424-9300 (U.S., Canada, Puerto Rico, Virgin Islands) 1-703-527-3887 (all other areas)

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{Text for non-refillable containers that are 5 gallons or smaller}

CONTAINER DISPOSAL: Non-refillable Container.

Do not reuse or refill this container. Offer for recycling if available. Offer for reconditioning if appropriate. Triple rinse container promptly after emptying.

<u>Triple rinse as follows:</u> Empty the remaining contents into applications equipment or a mix tank and drain for ten seconds after the flow begins to drip. Fill the container ¹/₄ full with water and recap. Pour rinsate into application equipment or a mix tank for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

{Text for non-refillable containers that are larger than 5 gallons}

CONTAINER DISPOSAL: Non-refillable Container.

Do not reuse or refill this container. Offer for recycling if available. Offer for reconditioning if appropriate. Triple rinse container promptly after emptying.

<u>Triple rinse as follows:</u> Empty remaining contents into application equipment or mix tank. Fill the container ¹/₄ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this process two more times.

{Text for refillable liquid containers}

CONTAINER DISPOSAL: Refillable Container.

Refill this container with [ProOxine®] [Supplemental distributor brand name] only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into the application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 mingress Pour or contract pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.