

IN ANIMAL REARING AND CONFINEMENT FACILITIES

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

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

- 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 applications.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Preparation of active disinfectant solution: Place 3.25 fl. oz. of OXINE® concentrate per gallon of working solution (500 ppm available chlorine dioxide) into a clean, plastic pail and add ten (10) grams of OXINE® Activator Crystals or food grade citric acid of no less than 99% purity. Prepare in a well ventilated area. Allow five (5) minutes reaction time and 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 a commercial sprayer, saturate all surfaces with the activated OXINE® solution for a period of ten (10) minutes. Active solution 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 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 environmental surfaces

Directions for use:

- 1) Remove all poultry and feed from premises, vehicles, enclosures, coops and crates.
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities and fixtures occupied or traversed by poultry.
- 3) Empty all troughs, racks and other feeding and watering applications.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Preparation of active disinfectant solution: Place 3.25 fl. oz. of OXINE® concentrate per gallon of working solution (500 ppm available chlorine dioxide) into a clean, plastic pail and add ten (10) grams of OXINE® Activator Crystals or food grade citric acid of no less than 99% purity. Prepare in a well ventilated area. 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 a commercial sprayer, saturate all surfaces with the activated OXINE® solution for a period of ten (10) minutes. Active solution may be irritating when breathed, therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying 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 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.

- 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) Preparation of solution: Place 6.5 fl. oz. OXINE® concentrate per gallon of working solution (1000 ppm available ClO₂) into a clean, plastic pail. Dilute concentrate with one (1) gallon clean, potable water for each 6.5 fl. oz. of OXINE®.
- 3) To apply: Using a commercial sprayer or fogger, saturate all surfaces with the OXINE® solution, always use an applicable NIOSH/OSHA approved respirator appropriate for chlorine dioxide to avoid breathing mist.

TO CONTROL THE BUILDUP OF SLIME AND ODOR CAUSING BACTERIA IN FEED WATERS.

- 1) Feed water should be treated at the rate of one (1) fl. oz. of OXINE® per 30 gallons of water (5ppm available ClO₂) and may be injected or batch loaded.
- 2) Feed water storage tanks should be sufficiently sealed to prevent outside contamination and direct sunlight.

TO SANITIZE CLEAN SHELL EGGS INTENDED FOR FOOD OR FOOD PRODUCTS.

- 1) Preparation of sanitizing solution: Place 1.28 oz of OXINE® concentrate per gallon of working solution (200 ppm available chlorine dioxide) into a clean, plastic pail and add 3.8 grams (3/4 teaspoon) of OXINE® Activator Crystals or food grade citric acid of no less than 99% purity. Prepare in a well ventilated area. Allow five (5) minutes reaction time for crystals to dissolve completely. To this solution, add one (1) gallon of clean potable water.
- 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 HELP REMOVE ODORS AND TASTES FROM MUNICIPAL WELL WATERS

- 1) OXINE® should be injected into the incoming water main using a chemical proportioning pump or injector at a rate of 1.0 fl. oz. OXINE® per 150 gallons of water (1.0 ppm available ClO₂)
- 2) Confirm pump or injector accuracy using a OXINE® test kit and adjust accordingly.
- 3) OXINE® levels should be checked weekly.

NOTE: Chemical feed pumps and injectors must be chlorine resistant for best operation. Available ClO₂ levels should be confirmed using a test kit available from Bio-Cide International, Inc.

Oxine® (AH)



SANITIZER DISINFECTANT

Bacteriostat/Deodorizer

FUNGICIDAL - BACTERICIDAL - VIRUCIDAL ANIMAL REARING AND CONFINEMENT FACILITIES

**OXINE® has demonstrated efficacy against
the following animal viruses:**

Avian Influenza A Virus
Coxsackie Virus
PRRS Virus
Pseudorabies Virus
Canine Parvovirus
Newcastle Disease Virus
Foot and Mouth Disease Virus
Swine Vesicular Disease Virus
African Swine Fever Virus

Guaranteed Shelf-Life

Low Corrosion

Non-Flammable

**OXINE®
Destroys
Odors at the
Bacterial
Origin**

Active Ingredient:
Chlorine Dioxide2.0%
Other Ingredients98.0%
Total100.0%

**Oxine®
Solutions
are Non-
Volatile**

KEEP OUT OF REACH OF CHILDREN CAUTION

**SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS**

STORE IN A DARK PLACE

KEEP FROM FREEZING

E.P.A. REG # 9804-1

E.P.A. Est. No. 9804-OK-1

**Bio-Cide International Inc.
Norman, OK 73072
800.323.1398
www.bio-cide.com**

TO DISINFECT WATER STORAGE SYSTEMS

DIRECTIONS FOR USE:

- 1) Prior to disinfection, tanks should be cleaned using a suitable detergent and thoroughly flushed with clean potable water. There are both a ten (10) minute and a one (1) hour disinfection procedure to choose from.
- 2) Preparation of active solution: For ten (10) minute procedure: Place 3.25 fl. oz. of OXINE® concentrate per gallon of working solution (500 ppm available ClO₂) into a clean plastic container and add 10 grams of OXINE® 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 and for crystals to dissolve completely. Pour activated solution into tank and dilute with clean potable water, filling the tank completely, at the rate of one gallon for each 3.25 fl. oz. of OXINE®. Bleed air out of lines and allow to stand at least ten (10) minutes. Drain tank and lines and flush with potable water. For one (1) hour procedure: Place 3.25 fl. oz. of OXINE® concentrate per ten (10) gallons of working solution (50 ppm available ClO₂) into a clean plastic container and add 10 grams of OXINE® 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 and for crystals to dissolve completely. Pour activated solution into tank and dilute with clean, potable water, filling the tank completely, at the rate of ten (10) gallons for each 3.25 fl. oz. of OXINE®. Bleed air out of lines and allow to stand at least one (1) hour. Drain tank and lines then fill with potable water.

PRECAUTIONARY STATEMENT

Hazard to Humans & Domestic Animals. Harmful if swallowed. May cause irritation. Avoid contact with eyes.

FIRST AID

If 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 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 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 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 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 800.858.7378 (U.S., Canada, Puerto Rico, Virgin Islands) or 703-527-3887 (All Other Areas)

STORAGE AND DISPOSAL

Product Storage: Store in a cool, dry well ventilated location away from acids, chlorine and chlorine compounds, hypochlorites (bleach), organic solvents, sulfur and sulfite compounds, phosphorus, combustible/flammable materials, and direct sunlight. Keep containers tightly closed when not in use and open carefully to prevent spillage. Storage on wooden floors or pallets is not recommended. Do not contaminate water, food, or feed by storage or disposal.

Container Disposal: Triple rinse. 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.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public water 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.