

# Zep DOMINION SANITIZER™

## DISINFECTANT-BACTERIOSTAT-VIRUCIDAL

- Food Processing Plants
- Bottling Plants
- Institutional Use
- Animal Confinement
- Non-Volatile
- Non-Flammable
- Low Corrosion
- Odor Control

PROD. #2471  
03131  
v.091912

NET CONTENTS:

**5 Gallons**  
**18.92 Liters**

<b>ACTIVE INGREDIENT:</b>	
Chlorine Dioxide.....	2.0%
<b>OTHER INGREDIENTS</b> .....	98.0%
<b>TOTAL</b> .....	100.0%

KEEP OUT OF REACH OF CHILDREN  
**CAUTION**

**PRECAUTIONARY STATEMENTS**  
**HAZARD TO HUMANS AND DOMESTIC ANIMALS**

Harmful if swallowed. Harmful if inhaled. Avoid breathing vapor or spray mist. Causes moderate eye irritation. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking and chewing gum or using tobacco or going to the restroom. Handlers applying chlorine dioxide in an occupational setting must wear gloves.

### 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 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 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.

For 24 hour emergency information on this product, call NPIC at 1-800-858-7378 (US, Canada, Puerto Rico, Virgin Islands) or 1-703-527-3887 (All Other Areas)

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

### ENVIRONMENTAL HAZARDS

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

### PROPER ACTIVATION OF ZEP DOMINION SANITIZER

MEASURE out the desired volume of Zep Dominion Sanitizer concentrate into a clean vessel in a well ventilated area. ADD the required amount of activator acid, stir and allow to dissolve for five minutes for citric acid or two minutes for phosphoric acid. Avoid breathing any fumes that may be produced. After appropriate activation time, DILUTE with clean water to your desired final concentration.

CONCENTRATION	OUNCES PER 5 GALLONS	CITRIC ACID
100 ppm	3.20 fl.oz./5 gallon	10.0 g
200 ppm	6.4 fl. oz./5 gallon	20.0 g

CONCENTRATION	OUNCES PER 5 GALLONS	33% PHOSPHORIC ACID LIQUID
5 ppm	0.16 fl.oz./5 gallon	0.025 fl.oz.
50 ppm	1.60 fl.oz./5 gallon	0.25 fl.oz.
100 ppm	3.20 fl.oz./5 gallon	0.5 fl.oz.
500 ppm	16.00 fl.oz./5 gallon	2.5 fl.oz.

### PROPER DILUTION OF ZEP DOMINION SANITIZER

Parts per Million				
5 ppm	0.16 fl.oz.	per 5 gallons	or	1.25 ml per liter
50 ppm	1.6 fl.oz.	per 5 gallons	or	12.5 ml per liter
100 ppm	3.2 fl.oz.	per 5 gallons	or	25.0 ml per liter
500 ppm	16 fl.oz.	per 5 gallons	or	125.0 ml per liter

### DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

**IN FOOD PROCESSING PLANTS SUCH AS POULTRY, FISH & MEAT, 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, recirculation and clean in place (CIP) systems and other food processing equipment in accordance with 40 CFR 180.940(b)(c).

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 solutions: 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, circulate or spray tank, line, equipment or food contact surface with active solution making sure surface area is thoroughly wet for at least one minute. After sanitizing drain tank, line or equipment, allow to air-dry. Fresh sanitizing solution should be made up daily or more often if solution becomes diluted or soiled.

#### To disinfect walls, ceilings and floors

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 disinfecting solution: Prepare an activated working solution containing 500 ppm available chlorine dioxide according to the activation chart.
3. To apply: Spray or fog disinfectant solution onto surface to be disinfected, using a suitable spraying or fogging 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 or fogging these solutions. People must vacate the premises during fogging treatments, a one hour restricted entry interval (REI) is required. After application allow to air dry. Treat as required. Never reuse activated solutions.

Fogging is to be used as an adjunct to acceptable manual cleaning and disinfecting for room and environmental surfaces.

#### To disinfect walls, ceilings and floors of poultry processing plants

Special Instructions for Inactivating Avian Influenza A

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 disinfecting solution: Prepare an activated working solution containing 500 ppm available chlorine dioxide according to the activation chart.
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 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 control the buildup of odor and slime forming bacteria in process waters for vegetable and fruits rinses and associated tanks, flumes and lines.

1. All tanks, flumes and lines, etc. should be thoroughly cleaned 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 Zep Dominion Sanitizer to potable water using a chemical feed pump or other injector system to produce a five (5) ppm available chlorine dioxide solution (see dilution chart).
3. Optional activated solution – If heavy use of process water is expected or if slime buildup is extreme, an activated solution of Zep Dominion Sanitizer is recommended. Chill tanks, rinse tanks, flumes and lines may be batch loaded at start up. Process waters should be treated by adding activated Zep Dominion Sanitizer to potable water using a chemical feed pump or other injector system to produce five (5) ppm available chlorine dioxide solution (see activation and dilution chart).
4. In order to insure accurate delivery, a 1:10 dilution of the (activated or unactivated) Zep Dominion Sanitizer concentrate should be made and a feed rate of three and one-quarter (3 ¼) fluid ounces per ten (10) gallons of process water should be maintained. Make up fresh solutions daily.
5. After treatment of fruits and vegetable follow with a potable water rinse.

NOTE: Chemical feed pumps and injectors must be chlorine resistant for best operation. Available ClO2 levels should be confirmed using a test kit.

#### For use in the preparation of fruits and vegetables to extend freshness and shelf life.

#### PRE-TREATMENT FOR UNCU, UNPEELED FRUITS AND VEGETABLES

1. Before treatment, whole fruits and vegetables should be washed and thoroughly rinsed with clean potable water.
2. Prepare a non-activated working solution containing 5 ppm available chlorine dioxide according to the dilution chart.
3. Dip product in treatment solution for about 10 to 20 seconds, then follow with a potable water rinse.
4. Fruits and vegetables treated with chlorine dioxide must be blanched, cooked or canned before consumption or distribution in commerce.

#### For use as a lube additive to control bacterial slime and odor on moving conveyors and chains in food processing facilities.

1. Prior to the application of the lube Zep Dominion Sanitizer mixture, all conveyors, lube lines, spray nozzle heads, conveyor surfaces, and other associated structures should be thoroughly cleaned and sanitized.
2. Zep Dominion Sanitizer should be added to the water dilution step of the lube system just prior to its injections into the distribution system. Addition of the Zep Dominion Sanitizer into lube/water mixture should be at the rate of 0.64 fl.oz. to 1.28 fl. oz. per 10 gallons of lube mixture. This will result in a final concentration of between 10 and 20 ppm Zep Dominion Sanitizer in the lube solution.
3. For best results use with natural (fatty acid, soap based) lubricant products.

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

1. Preparation of sanitizing solution: Prepare an activated working solution containing 100-200 ppm available chlorine dioxide according to the activation chart. To prepare a 200 ppm activated solution place 1.28 oz of Zep Dominion Sanitizer 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 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 (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.

#### IN ANIMAL REARING AND CONFINEMENT FACILITIES

#### To disinfect commercial animal confinement facilities such as poultry houses, swine pens, calf barns and kennels

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: Prepare an activated working solution containing 500 ppm available chlorine dioxide according to the activation chart.
6. To apply: Using a commercial sprayer, saturate all surfaces with the activated solution for a period of 10 minutes. Active solutions may be irritating when breathed, therefore, always use an applicable NIOSH/MSHA approved respirator 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.

#### IN WATER TREATMENT AND WATER STORAGE SYSTEMS

#### To disinfect water storage systems aboard aircraft, boats, RV's, and off-shore oil rigs

1. Prior to disinfection, tanks should be cleaned using a suitable detergent and thoroughly flush with clean, potable water. There is both a 10 minute and a 1 hour disinfection procedure to choose from.
2. Preparation of active solution: For 10 minute procedure: Preparation of active solution: Prepare an activated working solution containing 500 ppm available chlorine dioxide according to the activation chart. Pour activated solution into tank and dilute with clean potable water, filling tank completely, at the rate of one gallon for each 3 ¼ oz of Zep Dominion Sanitizer. Bleed air out of lines and allow to stand at least 10 minutes. Drain tank and lines and flush with potable water. For 1 hour procedure: Preparation of active solution: Prepare an activated working solution containing 50 ppm available chlorine dioxide according to the activation chart. Pour activated solution into tank completely, at the rate of 10 gallons for each 3 ¼ oz of Zep Dominion Sanitizer. Bleed air out of lines and allow to stand at least 1 hour. Drain tank and lines then fill with potable water.

#### USE INFORMATION

Activated Zep Dominion Sanitizer at 50 –200 ppm is an effective sanitizer permitted as a food contact surface sanitizing solution for the uses described in 40 CFR 180.940 (b)(c).

Zep Dominion Sanitizer is an effective virucide against the following animal pathogens when used according to label instructions at 500 ppm activated use solution with a ten minute contact time.

Avian Influenza A Virus (H3N2) (Avian Reassortment) ATCCVR-2072, Canine Parvovirus, ATCCVR-593, Newcastle Disease Virus (NDV), ATCCVR-623, Porcine Reproductive and Respiratory Disease Syndrome Virus (PRRS) NVSL Strain, Pseudorabies virus, ATCCVR-135

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or 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 and pallets is not recommended.

**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. Offer for recycling if available. Offer for reconditioning if appropriate. Triple rinse container (or equivalent) promptly after emptying.

**CONTAINERS 5 GALLONS OR SMALLER** – Triple rinse as follows: 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 or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**CONTAINERS THAT ARE LARGER THAN 5 GALLONS** – Triple rinse as follows: 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. Turn the container over onto its other 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.

STORE IN COOL DARK PLACE – KEEP FROM FREEZING

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