

5382-46

12/30/2009

1/9

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



United States  
Environmental Protection  
Agency

Office of Pesticide Programs

Kindra V. Levels  
Industrial Health Specialist  
Occidental Chemical Corporation  
PO Box 809050  
Dallas, TX 75380-9050

DEC 30 2009

**FILE COPY**

Subject: CD-2  
EPA Registration No. 5382-46  
Application Date: December 03, 2009  
Receipt Date: December 11, 2009

Dear Ms. Levels:

This acknowledges receipt of your notification, submitted under the provision of PR Notice 98-10, FIFRA section 3(c)9.

**Proposed Notification:**

- Revision to "Storage and Disposal" statement per PR Notice 2007-4

**General Comments:**

Based on a review of the material submitted, the following comment applies:

The notification application is acceptable and a copy has been inserted in your file for future reference.

Should you have any questions or comments concerning this letter, please contact me at (703) 308-6345.

Sincerely,

Wanda Y. Henson  
Acting Product Manager (32)  
Regulatory Management Branch II  
Antimicrobials Division (7510P)







5/9

{All text in braces {xxx}, is administrative and will not appear on a final label}  
{All text in brackets [xxx] is optional and may or may not be included on a final label}

# CD-2

## FOR INSTITUTIONAL OR INDUSTRIAL USE ONLY

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. May cause skin and eye irritation. Avoid contact with eyes, skin, or clothing. Remove and wash contaminated clothing to avoid fire.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish. 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 the discharge. Do not discharge effluent containing this product to sewer systems without previously notifying local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

#### CHEMICAL HAZARDS

Dry sodium chlorite is a strong oxidizing agent. This product becomes a fire or explosive hazard if allowed to dry. Mix only in water. Contamination may start a chemical reaction with generation of heat, liberation of hazardous gases (chlorine dioxide a poisonous, explosive gas), and possible fire and explosion. Do not contaminate with garbage, dirt, organic matter, household products, chemicals, soap products, paint products, solvents, acids, vinegar, beverages, oils, pine oil, dirty rags, or any other foreign matter.

#### DIRECTIONS FOR USE

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

#### ACTIVATION

The active biocidal component of the CD-2 system is free chlorine dioxide. Unactivated CD-2 in the neutral to mildly alkaline pH range is bacteriostatic. For higher levels of microbial control, such as sanitation and disinfection, activation of CD-2 is required to generate free chlorine dioxide. The use of citric acid as an activator is specified in the CD-2 label applications.

#### IN FOOD PROCESSING PLANTS, POULTRY, MEAT, FISH, DAIRIES, AND BOTTLING PLANTS, CANNERIES, BREWERIES, AND RESTAURANTS.

As a terminal sanitizing rinse for stainless steel and other hard nonporous food contact surfaces such as tanks, transfer lines and other food process equipment.

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: Place 3¼ fl. oz. (97.5 mls) of CD-2 concentrate into a clean plastic pail or container and add 10 grams of citric acid crystals. Prepare in a well-ventilated area. Avoid breathing any fumes which may be produced while crystals are dissolving. Allow 5 minutes reaction time for crystals to dissolve, completely. To this solution, add 5 gallons of clean potable water (100 ppm available chlorine dioxide).

**NOTIFICATION**  
Date Reviewed: 12/30/09  
Reviewed By: [Signature]

Small circular marks or artifacts at the bottom right of the page.



{All text in braces {xx.,} is administrative and will not appear on a final label}  
{All text in brackets [xxx] is optional and may or may not be included on a final label}

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 minute. After sanitizing drain the 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.

**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. Place 3/4 fl. oz. (97.5 mls) of CD-2 concentrate into a clean, plastic pail and add 10 grams of citric acid crystals. Prepare in a well-ventilated area, avoid breathing any fumes which may be produced while crystals are dissolving. Allow 5 minutes reaction time and for crystals to dissolve completely. To this solution, add one (1) gallon of clean, potable water (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 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 re-use activated solutions.

To control mold and mildew, odor and slime- forming bacteria on walls, floors, and ceilings. See Instruction Sheet.

To control the buildup of odor and slime and control taste in ice plants and poultry and meat processing plant water. See Instruction Sheet.

To control the buildup of odor and slime forming bacteria in process waters for vegetable rinses and associated tanks, flumes, and lines. See Instruction Sheet.

For use in the preparation of fruits and vegetables to extend freshness and shelf life. See Instruction Sheet.

To control the build-up of odor and slime forming bacteria in stainless steel transfer lines and on-line equipment such as hydrocoolers, pasteurizers and the like overnight and over weekends. See Instruction Sheet.

To control odor and slime forming bacteria in cooling and warming waters such as canning retort and pasteurizer cooling water used to decrease or increase packaged product temperature by immersion in or by spraying with the treated process waters. See Instruction Sheet.

To inhibit bacterial slime-forming bacterial buildup in cooling water systems. See Instruction Sheet.

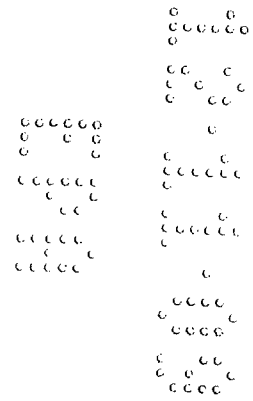
**IN WATER TREATMENT AND WATER STORAGE SYSTEMS**

To disinfect water storage systems aboard aircraft, boats, RV's, offshore oil rigs, etc. See Instruction Sheet.

To control buildup of slime- and odor-causing bacteria and enhance the taste of stored potable water. See Instruction Sheet.

To help remove off odors and tastes from municipal well waters. See Instruction Sheet.

Label: M47033 (6800) OC\_US\_dr\_EPA(05/04) R01



{All text in braces {x...} is administrative and will not appear on a final label}  
{All text in brackets [xxx] is optional and may or may not be included on a final label}

**IN MUSHROOM FACILITIES SUCH AS MUSHROOM PRODUCTION, SPAWN PRODUCTION, MUSHROOM PRODUCTION AND CANNERY OPERATIONS**

As a terminal sanitizing rinse for stainless steel tanks, transfer lines, on-line equipment, picking baskets, picking utensils, and other food contact surfaces. See Instruction Sheet.

To disinfect walls, ceilings, and floors. See Instruction Sheet.

To control mold- and slime-forming bacteria on walls, floors, ceilings, and post-crop mushroom growing surfaces. See Instruction Sheet.

**IN LABORATORIES, HOSPITALS, MORGUES, AND INSTITUTIONS**

To disinfect non-porous, hard surfaces such as tile floors, walls, and ceilings and stainless steel cold rooms and walk-in incubators. See Instruction Sheet.

To disinfect bench tops, biological hoods, incubators, stainless steel equipment and instruments. See Instruction Sheet.

To disinfect water bath incubators. See Instruction Sheet.

To control odor- and slime-forming bacteria in waterbath incubators. See Instruction Sheet.

To control odors resulting from the sterilization of spent biologicals in steam autoclaves. See Instruction Sheet.

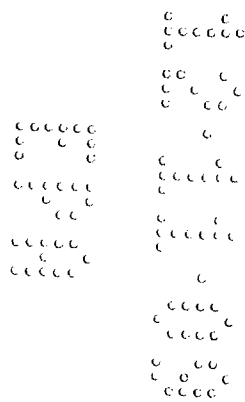
To deodorize animal holding rooms, sick rooms, morgues, and work rooms. See Instruction Sheet.

**IN ANIMAL REARING AND CONFINEMENT FACILITIES**

To disinfect commercial animal confinement facilities such as poultry houses, swine pens, calf barns, and kennels. See Instruction Sheet.

To control the buildup of odor- and slime-forming bacteria in animal confinement areas. See Instruction Sheet.

To control animal odors on carpets. See Instruction Sheet.





{All text in braces {xxx}, is administrative and will not appear on a final label}  
{All text in brackets [xxx] is optional and may or may not be included on a final label}

### STORAGE AND DISPOSAL

**STORAGE:** Do not contaminate water, food, or feed by storage or disposal. Keep product in tightly closed container when not in use. Don't drop, roll or skid drum. Keep upright. Always replace cover. Store in a cool, dry well-ventilated area away from heat or open flame.

**EMERGENCY HANDLING:** In case of contamination or decomposition, do not reseal container. If possible, isolate container in open and well ventilated area. Flood with large volumes of water. If fire occurs, extinguish fire by applying large quantities of water. Any unopened drums near the fire should be cooled by spraying with water.

**PESTICIDE 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 instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

{Text for non-refillable liquid containers that are 5 gallons or smaller}  
**CONTAINER DISPOSAL: Nonrefillable Container.**  
Do not reuse or refill this container. Offer for recycling if available. Offer for reconditioning if appropriate. Triple Rinse or Pressure Rinse container promptly after emptying.  
**Triple Rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. 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.  
**Pressure Rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

{Text for non-refillable liquid containers that are larger than 5 gallons}  
**CONTAINER DISPOSAL: Nonrefillable Container.**  
Do not reuse or refill this container. Offer for recycling if available. Offer for reconditioning if appropriate. Triple Rinse or Pressure Rinse container promptly after emptying.  
**Triple Rinse as follows:** Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip 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 procedure two more times.  
**Pressure Rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

{Text for refillable liquid containers}  
**CONTAINER DISPOSAL: Refillable Container.**  
Refill this container with [Technical Sodium Chlorite Solution 50]; [Supplemental distributor brand name] only. Do not reuse this container for any other purpose.  
Cleaning or pressure rinsing 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 application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times.  
To pressure rinse the container before final disposal, empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

