



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

March 30, 2015

Ana Rodriguez-Koster
Lewis & Harrison, Agent
ERCO Worldwide
302 The East Mall, Suite 200
Toronto, Ontario M9B 6C7
Canada

Subject: Notification per PRN 98-10 – Addition of an establishment number
Product Name: Sodium Chlorite Solution 7.5
EPA Registration Number: 53345-19
Application Date: February 4, 2015
Decision Number: 501858

Dear Ms. Rodriguez-Koster:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

If you have any questions, you may contact Wanda Henson at (703) 308-6345 or via email at henson.wanda@epa.gov.

Sincerely,

A handwritten signature in blue ink that reads "Wanda J. Henson, for".

Demson Fuller, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs

SODIUM CHLORITE SOLUTION 7.5

FOR USE IN GENERATING CHLORINE DIOXIDE TO CONTROL MICROORGANISMS IN POTABLE WATER, WASTEWATER, FOOD PROCESSING PLANT WATER, ONCE-THROUGH COOLING WATER SYSTEMS, GENERAL INDUSTRIAL PROCESS WATER AND FOOD-CONTACT SURFACES

ACTIVE INGREDIENT:	
Sodium Chlorite.....	7.5%
Other Ingredients.....	92.5%
TOTAL:	100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

NOTIFICATION

53345-19

EPA Reg. No.: 53345-19

EPA Est. No.:

53345-CAN-001

53345-CAN-004

86565-LA-002

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges Net Contents: _____ this notification by letter dated: _____

03/30/2015

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 five 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 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 by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Poison Center at 1-800-222-1222 for emergency medical treatment information.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. May be fatal if swallowed. Harmful if inhaled. Avoid breathing vapors or spray mist.

Personal Protective Equipment (PPE): Wear protective eyewear (goggles, face shield or safety glasses). Wear coveralls over long-sleeve shirt, long pants, socks, chemical-resistant footwear, and chemical-resistant gloves made of any waterproof material (Selection Category A). When mixing, loading, and cleaning equipment wear a chemical resistant apron. For overhead exposure, wear chemical resistant head gear. Handlers applying chlorine dioxide in an occupational setting (application to hard surfaces) must wear gloves.

User Safety Requirements: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not re-use them.

User Safety Instructions: User must: (1) wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet; (2) remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing; and, (3) remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and 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 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.

PHYSICAL OR CHEMICAL HAZARDS

Strong oxidizing agent. Mix or dilute with water only. Mixing with acids, or alcohol, or other chemicals may cause evolution of chlorine and chlorine dioxide gas mixture which is toxic and may be explosive. Combustible materials contaminated with SODIUM CHLORITE SOLUTION 7.5 may burn rapidly. Keep handling areas and equipment clean and free of oils, greases, combustibles and dust. Do not contaminate 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.

DIRECTIONS FOR USE

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

CHLORINE DIOXIDE GENERATION

SODIUM CHLORITE SOLUTION 7.5 is a precursor for the generation of chlorine dioxide. DO NOT ADD SODIUM CHLORITE SOLUTION 7.5 directly to the system being treated. Chlorine dioxide solutions can be generated from SODIUM CHLORITE SOLUTION 7.5 by several common methods including:

1. The chlorine method which utilizes SODIUM CHLORITE SOLUTION 7.5 and chlorine gas, or,
 2. The Acid-Chlorite method which utilizes SODIUM CHLORITE SOLUTION 7.5, and an acid, or
 3. The hypochlorite method which utilizes SODIUM CHLORITE SOLUTION 7.5, with sodium hypochlorite as needed.
 4. The electrolytic method which utilizes SODIUM CHLORITE SOLUTION 7.5, with sodium chloride as needed.
- Add the generated chlorine dioxide solution to a point in the system which ensures uniform mixing. Your ERCO Worldwide representative can guide you in the selection, installation and operation for feed systems.

APPLICATIONS

POTABLE WATER AND WASTEWATER DISINFECTION: For most municipal systems, a chlorine dioxide residual concentration up to 2.0 ppm is sufficient to provide adequate disinfection. The concentration of total residual oxidants (chlorine dioxide, chlorite and chlorate) must be monitored such that it does not exceed 1.0 ppm in the distribution system. For wastewater and sewage applications, residual chlorine dioxide concentrations up to 5.0 ppm are generally adequate.

FOOD PROCESSING PLANTS, DAIRIES, BOTTLING PLANTS AND BREWERIES and FOOD PLANT PROCESS WATER: For microbial control in food processing water systems (flume transport, chill water systems, hydrocoolers and retort cooling water) apply SODIUM CHLORITE SOLUTION 7.5 through a chlorine dioxide generation system to achieve a chlorine dioxide residual concentration ranging from 0.25 to 5.0 ppm.

Chlorine dioxide generated from SODIUM CHLORITE SOLUTION 7.5 may also be used as a water sanitizer for fruit and vegetable washing and cut and peeled potatoes products without a subsequent potable water rinse requirement, provided that the concentration of total residual oxidants meet the residual limitations of ≤ 1.0 ppm.

Residual concentrations up to 5.0 ppm chlorine dioxide in process water may be used for washing whole uncut and unpeeled fruits and vegetables although a final potable water rinse is required if the residual exceeds 1 ppm.

Potatoes, including those which have been peeled or cut, may be treated with sufficient chlorine dioxide to produce a residual concentration of up to 5.0 ppm provided this is followed by a potable water rinse.

POULTRY PROCESSING WATER: Use SODIUM CHLORITE SOLUTION 7.5 to generate chlorine dioxide for use as an antimicrobial agent in water used in poultry processing in an amount not to exceed 3 ppm residual chlorine dioxide as determined by an appropriate method.

SANITIZATION OF FOOD-CONTACT SURFACES IN FOOD-PROCESSING PLANTS, DAIRIES, BOTTLING PLANTS AND BREWERIES: Use SODIUM CHLORITE SOLUTION 7.5 to generate chlorine dioxide for use as a terminal no-rinse sanitizer

Revised 01/15/2015

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for food-contact surfaces, food-processing equipment and utensils. Prior to application, remove gross food particles and soil by a pre-flush, or pre-scrape, and when necessary, pre-soak treatment. Then thoroughly wash all equipment, surfaces and utensils with a suitable detergent or cleaner, followed by a potable water rinse. Dilute the chlorine dioxide solution generated from the chlorine dioxide generator with potable water to achieve a use-solution of at least 100 ppm but not more than 200 ppm available chlorine dioxide. A contact time of at least one minute is required for sanitization. Allow the sanitizing solution to thoroughly drain and dry from all equipment and surfaces cleared for use on food contact surfaces under the Federal, Food, Drug and Cosmetic Act prior to recontact of the sanitized surface with food or feed items.

GENERAL INDUSTRIAL PROCESS WATER TREATMENT (OILFIELD INJECTION WATER, WHITE WATER PAPER MILL SYSTEMS, AND RECIRCULATING COOLING TOWERS): For control of microbial slime, these systems will require a chlorine dioxide residual concentration ranging between 0.25 and 5.0 ppm.

ONCE-THROUGH COOLING WATER SYSTEMS: Control of mollusks can be effectively accomplished using SODIUM CHLORITE SOLUTION 7.5 as directed in commercial and industrial once-through cooling water systems. SODIUM CHLORITE SOLUTION 7.5 may be fed on a continuous or slug basis depending on the degree of system fouling.

SLUG DOSE: Add 42 lbs. of chlorine dioxide per million gallons of water (5 ppm).

CONTINUOUS DOSE: Add 2 to 16 lbs. of chlorine dioxide per million gallons of water (0.25 to 2 ppm)

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

Pesticide Storage:

Avoid exposure to high temperatures during storage. Store remote from other chemicals and combustible materials. Do not skid or slide drums.

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

Container Handling:

Tank trucks and Railcars: Return for reuse. All valves must be closed tight and closures or caps secured. **Containers equal to or less than 5 gallons:** Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) 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 ¼ 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. Then offer for recycling if available 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.

Containers over 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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. 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 procedure two more times. Then offer for recycling if available 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.

MADE IN CANADA