

1757-315

07-19-2007

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**GENEROX™ 750**  
**CHLORINE DIOXIDE PRECURSOR FOR MICROBIAL CONTROL IN WATER AND WASTEWATER  
AND ON HARD SURFACES**

ACTIVE INGREDIENT:  
Sodium Chlorite ..... 7.5%  
OTHER INGREDIENTS: ..... 92.5%  
TOTAL ..... 100.0%  
Available Chlorine – 11.8%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present after first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice if burning or irritation of the skin persists.</li></ul>
IF SWALLOWED	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person drink a glass of water immediately if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
IF INHALED	<ul style="list-style-type: none"><li>• Move person to fresh air and monitor for respiratory distress.</li><li>• If cough or difficulty in breathing develops, consult a physician immediately.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>For emergency medical information call 1-800-ASHLAND</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>NOTE TO PHYSICIAN</b> Probable mucosal damage may contraindicate the use of gastric lavage.	

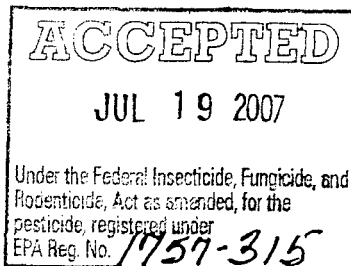
EPA Reg. No. 1757-315

EPA Est. No. 1757-NJ-01  
1757-TX-01  
5382-KS-01  
70547-IL-01

NET CONTENTS MARKED ON DRUM

Sold by:  
Drew Industrial Division  
Ashland Chemical Company  
Division of Ashland Inc.

One Drew Plaza, Boonton, New Jersey 07005  
Phone (973) 263-7600  
24 Hour Emergency Telephone Number  
1-800-274-5263 or 1-800-ASHLAND



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

**DANGER: CORROSIVE. CAUSES EYE AND SKIN DAMAGE.** Harmful if swallowed. Irritating to nose and throat. Avoid breathing vapor. Do not get in eyes, on skin or clothing. Wear goggles or face shield, rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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

**PHYSICAL OR CHEMICAL HAZARDS**

DO NOT mix with acids or other chemicals except water. Mixing with acid or other chemicals may cause evolution of chlorine dioxide gas, which is poisonous and explosive.

**DIRECTIONS FOR USE**

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

**DIRECTIONS FOR USE IN THE SANITIZATION OF FOOD CONTACT SURFACES**

Use GENEROX™ 750 in combination with FOAM ADD 10 to generate chlorine dioxide containing foam solution for use as a terminal no-rinse sanitizer for food contact surfaces, food processing equipment and utensils. Prior to application of the sanitizing foam, remove gross food particles and soil by a preflush or pre-scrape, and when necessary, a pre-soak treatment. Then thoroughly wash all equipment, surfaces and utensils with a suitable detergent or cleaner, followed by a potable water rinse.

Application of the foam sanitizing solution can be accomplished by manually combining 15 oz of FOAM ADD 10 with 2.5 oz of GENEROX™ 750, gently mixing for ten minutes and then immediately diluting with water to ten gallons. Alternatively, use the Rio Linda Chemical Portable Foamer or a centrally located installed system to mix the components, at the use levels noted above. Cover the entire area being treated with the foam sanitizer to a depth of 1/4 - 1". A contact time of at least one minute is required for sanitization. Allow the foam sanitizer to thoroughly drain and dry from all equipment and surfaces prior to recontact of the sanitized surface with food or feed items.

The efficacy of GENEROX™ 750 was demonstrated to be equivalent to that of > 200 ppm NaOCl when tested against Salmonella typhi.

**DIRECTIONS FOR USE IN THE MECHANICAL OR ELECTROLYTIC GENERATION OF CHLORINE DIOXIDE AS A DISINFECTANT, OR FOR MICROORGANISM CONTROL IN WATER AND WASTEWATER SYSTEMS**

GENEROX™ 750 may be used in the mechanical generation of chlorine dioxide for use in controlling microorganisms in water and wastewater systems. GENEROX™ 750 is fed to chlorine dioxide generation equipment, which produces an aqueous solution of chlorine dioxide by one of the following methods of generation:

1. The chlorine method, which uses GENEROX™ 750 and chlorine gas;
2. The hypochlorite method, which uses GENEROX™ 750 and a combination of a hypochlorite solution, and an acid;
3. The acid-chlorite method, which uses GENEROX™ 750 and an acid as the activating agent; or,
4. The electrolytic method which uses GENEROX™ 750 with sodium chloride added as needed.

Your Ashland representative can guide you in the selection, installation and operation of generation systems. Consult the instructions on the chlorine dioxide generation system before using GENEROX™ 750.

**FEED REQUIREMENTS**

Feed rates of GENEROX™ 750 will depend on the severity of contamination and the degree of control desired. The exact dosage will depend on the size of the system and residual necessary for effective control. Depending on the generator type GENEROX™ 750 may be diluted at the point of use to prepare a 3% to 7.5% active aqueous solution for use in the chlorine dioxide generators.

In all cases, generated chlorine dioxide solution should be applied in such a manner to ensure adequate mixing and minimal volatilization. The water stream to be treated may either be passed directly through the chlorine dioxide generator or treated via side stream injection point. The generation system employed should be in good working order and capable of achieving chlorine dioxide solutions free from chlorine contamination.

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Because of the variability of demand in water and process systems, the dosage of chlorine dioxide required to achieve the target residuals is normally lower for continuous feed systems than for slug or timed feed applications. The minimum acceptable residual for chlorine dioxide, as determined by a verified procedure, is 0.1 ppm for a minimum one minute contact time.

Residual determination procedures should be substantiated methods and should also be specific for chlorine dioxide or used in systems where no chlorine contamination is possible. Do not add GENEROX™ 750 directly to process water.

**APPLICATIONS POTABLE WATER AND WASTEWATER DISINFECTION:**

For most municipal and public potable water systems a chlorine dioxide residual concentration up to 2.0 ppm is sufficient to provide adequate disinfection. Residual disinfectant and disinfection byproducts must be monitored as required by the National Primary Drinking Water Regulations (40 CFR Part 141) and state drinking water standards. 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:** For microbial control in typical food processing water systems, such as flume transport, chill water systems, hydrocoolers, beverage and brewery pasteurizers and bottle rinsing, apply GENEROX™ 750 through a chlorine dioxide generation system to achieve a chlorine dioxide residual concentration ranging from 0.25 to 5.0 ppm.

Water, containing up to 3 ppm residual chlorine dioxide may be used for washing fruits and vegetables that are not raw agricultural commodities in accordance with 21 CFR § 173.300. Treatment of the fruits and vegetables with chlorine dioxide must be followed by a potable water rinse, or by blanching, cooking or canning.

GENEROX™ 750 can also be used to generate chlorine dioxide for control microbial contamination in, and removal of chlorine and impurities from, brewery influent water. Apply the generated chlorine dioxide to influent water at a dosing level so that the residual amount of chlorine dioxide in influent water does not exceed 0.8 ppm.

**POULTRY PROCESSING WATER:** Use GENEROX™ 750 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 in accordance with 21 CFR § 173.300.

**AQUEOUS DISINFECTION SYSTEMS FOR CIP CLEANING:** If the concentration of chlorine dioxide generated from GENEROX™ 750 exceeds 5.0 ppm, a potable water rinse should follow treatment. Care should be taken to ensure the biological and chemical quality of the potable water.

**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. The GENEROX™ 750 dosage needed to achieve these levels will vary widely depending on the exact application.

Please consult you Ashland representative for assistance in determining the correct dosage level.

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration. In case of spill, flood the area with large quantities of water.

**PESTICIDE WASTES:** 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 Environment Control Agency, or the Hazardous Waste Representative at the nearest EPA regional office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) all containers and offer for recycling or reconditioning, or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities.

**IMPORTANT NOTICE:** Seller warrants that the product conforms to its chemical description and is reasonable fit for the purposes stated on the label under normal conditions of use. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL OR IMPLIED. THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN OTHER RESPECTS THAN AS EXPRESSLY SET FORTH HEREIN, ARE EXPRESSLY EXCLUDED AND DISCLAIMED.

**NOTE:** Buyer assumes all responsibility for safety and use not in accordance with directions.