**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMAN AND DOMESTIC ANIMALS**

**DANGER:** Highly corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing and shoes before reuse. May be Fatal if swallowed. Irritating to nose and throat. Avoid breathing dust.

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear:

A. Goggles or face shield  
B. Long-sleeved shirt and long pants  
C. Rubber gloves  
D. Shoes plus socks

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**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 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 prior notification of 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 only with water. Never add water to product. Always add product to large quantities of water. Do not mix with any other chemicals. Use only a clean, dry utensil made of metal or plastic each time product is taken from container. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, acids, organic matter, other chemicals, or easily combustible materials such as petroleum or paint products may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of a fire or explosion. In case of contamination or decomposition, do not reseal container. If possible isolate container in open air or well-ventilated area. Flood area with large volumes of water, if necessary.

Exclusively Distributed in North America by:

**ENVIRONMENTAL COMPLIANCE RESOURCES, LLC**  
1903 South Greeley Highway #307, Cheyenne, WY 82007  
Tel: 307-256-5044  
Fax: 888-462-5044  
www.ecr-world.com

**STORAGE AND DISPOSAL**

Read before using

Do not contaminate food or feed by storage, disposal, or cleaning of equipment.

**Pesticide Storage** - Keep this product dry in a tightly closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. In case of decomposition, isolate container (if possible) and flood area with large amounts of water to dissolve all materials before discarding this container.

**Pesticide Disposal** - Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of 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.

**Container Disposal** - Non-Refillable container. Triple rinse as follows: Empty the 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 mental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**Active Ingredient:**  
Calcium Hypochlorite ………………………………… 68.0%  
Inert Ingredients ……………………………………… 32.0%  
Total …………………………………….……………… 100%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

Do not mix with other chemicals. Always add product to water - Do not add water to product. See additional precautionary statements on back panel.

**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 5 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 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 the 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Note to physician:** Probable mucosal damage may contraindicate the use of gastric lavage. Contact INFOTRAC® at 1-800-535-5053 or your poison control center for 24-hour emergency medical treatment information. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**PLANT HYPACID DRIP SITE**

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**EPA Reg. No. 86460-1**  
**EPA Est. No. 074815-IND-001**  
**CAS # 7778-54-3**
FOOD PROCESSING

Use for in federally inspected meat and poultry plants.

Chlorine potable water treatment compounds.

Calcium hypochlorite is a dry granular, white-yellow material, granules, and flakes. The granules contain a minimum of 65% available chlorine. It is used for disinfection of drinking water, pools, spas, hot-tubs, and industrial cooling systems. Calcium hypochlorite is a dry, free flowing granular material that contains 65% available chlorine. It is used for disinfection of drinking water, swimming pools, spas, hot-tubs, and industrial cooling systems.

Directions for Use

For each 100,000 gallons of water, mix 2 oz. of this product in 40 gallons of water. Mix until well dissolved.

Chlorine solution used on meat and poultry, including fish and aquatic animals, at the rate of 1 pound of chlorine granules to 1000 pounds of meat or poultry. Cold treatments are required. The solution should not be stored for more than 72 hours, and an inspection of the treatment should be made.

Agriculture Use Requirements

Use the product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 195. The following are controls and limitations to the use of calcium hypochlorite.

APPLICATION RATES

Superchlorination

Periodic shock treatments

If the irrigation water has high levels of nutrients causing bacterial, algal, or other bio-fouling that reduces system efficiency, chemical treatments may be required. For example, a 50% increase in available chlorine concentration is recommended for reducing bio-fouling in irrigation systems. This is achieved by applying a solution of 5-10 ppm available chlorine to the irrigation system. The treatment should be applied to the irrigation system at a frequency of once per week to reduce the concentration of bio-fouling organisms.

Sensitivities

Certain plants, including various species of trees, flowers, shrubs, agronomic crops, fruits and vegetables are adversely affected by chlorination. The use of this product can improve the growth, appearance, and health of the plants.

Sensitivities

Calcium hypochlorite solutions containing 1% available chlorine should be fed into tanks or chutes by an elevated tank to provide a concentration of 2 ppm available chlorine. The flow may be controlled with a nonconductive valve or a pinch valve on a rubber hose.
Flow and Pressure Method

- Thoroughly clean equipment after use.
- Prepare a volume of 200 ppm available chlorine sanitizing solution equal to 1% of the capacity of the equipment being sanitized.
- Use this solution by thoroughly mixing 1 ounce of this product with 20 gallons of water in the system until full. The water pump should be running throughout the period. The water pump solution through the system until full flow is obtained at all extremities, the system is completely filled and sanitized. After 60 minutes, drain the water and water system extensively. The system is now thoroughly sanitized.
- Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse equipment thoroughly prior to use. Do not mix equipment after water treatment.

Sanitize all of the Porous Food Contact Surfaces

- Use a 600 ppm solution by thoroughly mixing 1 ounce of this product with 20 gallons of water to provide 600 ppm available chlorine.
- Clean surfaces the normal manner. Rinse all surfaces thoroughly with the 600 ppm solution. Maintain contact with the sanitizer for at least 2 minutes. Do not rinse equipment after treatment and do not soak equipment overnight.

Nonporous Food Contact Surfaces

- Prepare a 200 ppm solution of hypochlorite solution by using 1 ounce of this product with 20 gallons of water to provide 200 ppm available chlorine.
- Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse equipment thoroughly prior to use. Do not mix equipment after water treatment.

Sanitize all of the Porous Non-Food Contact Surfaces

- Use a 600 ppm solution by thoroughly mixing 1 ounce of this product with 20 gallons of water to provide 600 ppm available chlorine.
- Clean equipment surfaces in the normal manner. Prior to use, use all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment after treatment and do not soak equipment overnight.

Sanitize all of the Nonporous Non-Food Contact Surfaces

- Use a 200 ppm solution of hypochlorite solution by using 1 ounce of this product with 20 gallons of water to provide 200 ppm available chlorine.
- Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse equipment thoroughly prior to use. Do not mix equipment after water treatment.

Sanitize all of the Water Contact Surfaces

- Use a 200 ppm solution of hypochlorite solution by using 1 ounce of this product with 20 gallons of water to provide 200 ppm available chlorine.
- Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse equipment thoroughly prior to use. Do not mix equipment after water treatment.

Sanitize the sanitizing solution to confirm the presence of available chlorine.

- After 60 minutes, drain the water and water system extensively. The system is now thoroughly sanitized.
- Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse equipment thoroughly prior to use. Do not mix equipment after water treatment.

ECP Calcium Hypochlorite Granules EPA Reg. No. 86460-1

Sanitization of Porous Food Contact Surfaces

- Prepare a 200 ppm solution of hypochlorite solution by using 1 ounce of this product with 20 gallons of water to provide 200 ppm available chlorine.
- Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse equipment thoroughly prior to use. Do not mix equipment after water treatment.

Sanitize all of the Food Preparation Facilities

- Use a 1,000-PPM available chlorine soaking solution by adding 1-oz of this product for each 5-gallons of water to make a sanitizing solution of 25 ppm available chlorine.
- After draining the recirculating sanitizing solution, spray rinse vegetables with the sanitizing solution prior to packaging.

Sanitize all of the Water Contact Surfaces

- Use a 200 ppm solution of hypochlorite solution by using 1 ounce of this product with 20 gallons of water to provide 200 ppm available chlorine.
- Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse equipment thoroughly prior to use. Do not mix equipment after water treatment.

Sanitize all of the Porous Food Contact Surfaces

- Use a 600 ppm solution by thoroughly mixing 1 ounce of this product with 20 gallons of water to provide 600 ppm available chlorine.
- Clean surfaces the normal manner. Rinse all surfaces thoroughly with the 600 ppm solution. Maintain contact with the sanitizer for at least 2 minutes. Do not rinse equipment after treatment and do not soak equipment overnight.

Sanitize all of the Nonporous Food Contact Surfaces

- Use a 200 ppm solution of hypochlorite solution by using 1 ounce of this product with 20 gallons of water to provide 200 ppm available chlorine.
- Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse equipment thoroughly prior to use. Do not mix equipment after water treatment.
Commercial Laundry Sanitizers - That fabrics or clothes should be soon dry prior to sanitization. Thoroughly mix 1 oz. of this product with 20 gallons of water to yield 200 ppm available chlorine. Immediately after mixing the sanitizers, add them to the washing system and mix thoroughly. Do not add additional sodium hypochlorite in the regular detergent. Test the level of available chlorine, if solution has been allowed to stand. Add more of this product if the available chlorine level has dropped below 200 ppm.

**LABELING FOR AGRICULTURAL USE**

Write the fullest and most legible label of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only properly trained and experienced operators should apply this product. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**Agricultural Use Requirements:**

Use this product only in accordance with the labeling and in the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific restrictions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the Restricted-Entry Interval (REI) of 12 hours.

**Personal Protective Equipment (PPE):**

The following PPE is recommended for entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water. Applications and maintenance of the labeling directions must wear the following.

- Coveralls over long-sleeved shirt and long pants.
- Waterproof gloves.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.
- Waterproof gloves.
- Chemical-resistant headgear for overhead exposure.
- Chemical-resistant apron when cleaning equipment, mixing, loading, or handling this product

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Dust cloth and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate.

**FOR USE ON SEEDS FOR SPROUTING AS FOOD FOR HUMAN CONSUMPTION:**

When this treatment may reduce populations of E. coli O157, Salmonella spp. and E. coli O157:H7 on seeds and all vegetative tissue of the plant. Thorough mixing and thorough rinsing of all materials and equipment is of extreme importance. It is imperative that the product and the wastewater be instantaneously and completely flash mixed to reduce populations of E. coli O157, (food poisoning) on seeds intended for sprout production, it may not eliminate these organisms on the seeds. Additionally, treatment may not reduce or eliminate these organisms on the final sprouts.

1. In a well-ventilated area, prepare a 2% calcium hypochlorite solution (20,000 ppm available chlorine) by dissolving 3.5 lbs. of calcium hypochlorite in 100 gallons of water. Place the solution on the seeds and agitate thoroughly with water for 10 minutes. Mix solution for 10 minutes. Cool down the solution to room temperature.

2. Spread the seeds evenly on a slanted surface. Soak seeds for 2 to 4 hours. Drain the excess water from the seeds.

3. Rinse the seeds thoroughly with an 8 to 10 percent calcium hypochlorite solution for 10 minutes. Rinse the seeds with water for 10 minutes. Repeat the rinsing process for 3 to 5 minutes. Cool down the seeds to room temperature.

4. Drain the seeds to normal moisture. Roughly mix 1 lb. of this product with 20 gallons of water for 10 minutes. Thoroughly mix the solution and rinse the seeds thoroughly with water for 10 minutes. Remove excess water from the seeds.

5. Cool treatment to a final temperature of 100°F. Store the seed in a cool, dry, and well-ventilated area. This product is recommended for decontaminating single and multi-patient hemodialysate systems. This product has been shown to be an effective disinfectant (virus, bacteria, pseudomonad) when tested by AOAC and EPA methods. This product may not totally sterilize other hard-to-sterilize 200 ppm delivery systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as specified herein.

6. Follow the guidelines for hemodialysis systems which are available from the Hepatitis Laboratories, CDC, Phoenix, AZ 85021.

**COOLING TOWER / EVAPORATIVE CONDENSER WATER:**

Cooling Tower and Heat Exchange Surface –

Commercial Laundry Sanitizers

**AGRICULTURAL USES**

Commercial Laundry Sanitizers is a very effective water sanitizing agent. Initially, treat by adding enough of this product to provide 10 ppm available chlorine. Other water condition factors, such as pH, should be controlled as recommended by the equipment manufacturer.

**Slug Feed Method – Initial dose:**

When system is noticeably fouled, apply 10 to 20 ounces of this product per 10,000 gallons of water in the system to obtain 1 to 5 ppm available chlorine. Repeat until control is achieved. Subsequent dose:

When microbial control is evident, add 1 to 2 ounces of this product per 10,000 gallons of water in the system to obtain 1 to 5 ppm available chlorine. Badly fouled system must be cleaned before treatment is begun. Interim Feed Method – Initial dose:

When system is noticeably fouled, apply 10 to 20 ounces of this product per 10,000 gallons of water in the system to obtain 1 to 5 ppm available chlorine. Badly fouled system must be cleaned before treatment is begun. Continuous Feed Method – Initial dose:

When system is noticably fouled, apply 10 to 20 ounces of this product per 10,000 gallons of water in the system to obtain 1 to 5 ppm available chlorine. Subsequent dose: Maintain this treatment level by starting a continuous feed of 1 ounce of this product per 3,000 gallons of water lost by blowdown to maintain a 1.0 ppm residual. Badly fouled system must be cleaned before treatment is begun.

**SANITIZATION OF DIALYSIS MACHINES:**

Flush equipment thoroughly with water prior to using this product. Thorough mix 7 oz. of this product to 60 gallons of water to obtain at least 600 ppm available chlorine. Immediately use this product in the hemodialysis system allowing for a minimum contact time of 15 minutes at 20°C. Drain the system and the dialyzer thoroughly with water. Discard and DO NOT reuse the spent sanitizing solution. Residence must be monitored with a suitable test kit to ensure no available chlorine remains in the system.

**SEWAGE AND WASTEWATER TREATMENT:**

**EFFLUENT EFFICIENT TREATMENT:**

The disinfection of sewage effluent must be evaluated by determining the total number of coliform bacteria and/or fecal coliform bacteria, as determined by the Most Probable Number (MPN) procedure, to ensure that the chlorinated effluent has been reduced to below the maximum permitted by the controlling regulatory jurisdiction.

- On the average, satisfactory disinfection of secondary wastewaster effluent can be obtained when the chlorine residual is 0.5 ppm after 15 minutes contact. Although the chlorine residual is the critical factor in the disinfection of sewage effluent, the importance of combining chlorine residual with bacteriostatic filtering (MHHAN/D/DHAP approved for TC-21C).

- The USEPA has determined that this REI applies when the calcium hypochlorite is sprayed on the benches or areas around the treatment area. The REI for this product is 12 hours. The USEPA has determined that this REI applies when the calcium hypochlorite is sprayed on the benches or areas around the treatment area. The REI for this product is 12 hours.

- **SEWAGE AND WASTEWATER TREATMENT:**

**EFFLUENT SLIME CONTROL –** Apply a 100 to 1000 ppm available chlorine solution at location which will completely disperse. Prepare this solution by mixing 2 to 20 oz. of the product with 100 gallons of water. Once control is evident, add a 15 ppm available chlorine solution. Prepare this solution by mixing 0.3 oz. of this product with 100 gallons of water.

**FILTER BEDS – SLIME CONTROL:** Remove filter from service, drain to a depth of 1 ft., above filter sand, and add 1 oz. of this product to 1000 gallons of water evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for 4 to 6 hours before completely draining and backwashing filter.