Calcium Hypochlorite Granules for Industrial Applications

Water Treating Agent
Bactericide
Algaecide
Bleach

Vanguard Plus

Active Ingredient:
Calcium Hypochlorite .................. 68%
Other Ingredients .................. 32%
Total ........................................ 100%
Minimum 65% Available Chlorine

KEEP OUT OF REACH OF CHILDREN
DANGER
Do not mix with any other chemicals, including any other pool chemicals of any kind.
Mixing with other chemicals could cause a fire or explosion.
Always add product to large quantities of water to fully dissolve product.
Do not pour water into product, always add product to water.
See additional precautionary statements on back label.

FIRST AID
Contact 1-800-451-4444 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.

If in Eyes: Hold eye open and rinse gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and 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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS 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. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or going to the toilet. Remove and wash contaminated clothing and shoes before reuse. May be fatal if swallowed. Irritating to nose and throat. Avoid breathing dust.

ENVIRONMENTAL HAZARDS: This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, wetlands, oceans or other waters unless in compliance 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 authorities. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS: Strong oxidizing agent. Mix only with water. Do not mix this product with any other chemicals, including any pool chemicals of any kind, such as other disinfectants or "shock" pool products. Always add product to large quantities of water to dissolve product. Do not pour water into product. Use only a clean, dry utensil made of metal or plastic such that product is taken from the container. Do not add this product to any dispensing device containing remnants of any other product or pool chemical. Such use may cause violent reaction leading to fire or explosion. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat. Use of hazardous gauze and possible industrial respirator leading to fire or explosion, if product becomes concentrated or decomposes do not mix container. If possible isolate container in open air or well-ventilated area. Food with large volumes of water, if necessary, to fully dissolve product.

NET WEIGHT: 100 lbs. (45.36 kg)
DIRECTIONS FOR USE

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

DISINFECTION OF DRINKING WATER (POTABLE WATER)

PUBLIC WATER SYSTEMS

Never flush more than 15 containers of this product per tank at a time. To prevent the product from damaging the water pipes, mix the product in a clean container and add 1 gram of this product to each 1 gallon of water. One gram is approximately the size of the letter "s" in this sentence. Allow the treated water to stand for 24 hours. Properly treated water should have a slight chlorine odor, if not, repeat dosage and allow the water to stand for an additional 24 hours. The treated water can then be made palatable by pouring it through charcoal filters for several times.

OTHER USES

Calgon HPA-200Z is also used in the sanitation of water systems, municipal water mains, sewage and industrial waste treatment, pulp bleaching, sanitation in the food industry, restaurants, cafes, and hospitals, and to control public water systems, algae control in industrial cooling water systems, and general industrial sanitizations. For specific literature on these and other accepted uses, write to the address on the front label.

For a complete copy of the master label for this product, contact P&G or review the most current EPA-stamped label available at www.epa.gov/pesticides/pestinfo.

STORAGE AND DISPOSAL

Do not contaminate feed 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 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 mixtures or rinsates 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.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (for equivalent) promptly after emptying.

Stop! Do not mix with other products or pre-dissolve before use.

EMERGENCY DISINFECTION

When boiling of water for 1 minute is not practical, water can be made palatable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified, contaminated water to a clean container and add 1 gram of this product to each 1 gallon of water. One gram is approximately the size of the letter "s" in this sentence. Allow the treated water to stand for 24 hours. Properly treated water should have a slight chlorine odor, if not, repeat dosage and allow the water to stand for an additional 24 hours. The treated water can then be made palatable by pouring it through charcoal filters for several times.

INDIVIDUAL SYSTEMS

Deep Wells: Upon completion of the casing’s sealing, wash the interior of the casing with 100 ppm available chlorine solution using a brush. This solution can be made by thoroughly mixing 1 ounce of this product into 40 gallons of water. After covering the well, pour the solution directly into the well through the bucket. Do not allow the water to overflow the bucket. Then, refill the bucket and repeat the process of draining and refilling the well with the same solution. Start pumping and pump water until strong odor of chlorine in water is noticed. Shut pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed. Test your local Health Department for further details.

Drilled, Driven & Bore Wells: Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 1 ounce of this product into 40 gallons of water. Add to 10 gallons of clean, chlorinated water to the well in an effort to form the sanitizing into the rock formation. Wash the interior of the pump cylinder with the sanitizer. Deep pipeline into well, start pump and pump water until strong odor of chlorine in water is noted. Shut pump and wait at least 24 hours. After 24 hours, flush well until all traces of chlorine have been removed. Test your local Health Department for further details.

After the initial treatment, fix calcium hydroxide into the inside line of the well pump. This helps keep any filters free of slime. Automatic hardwater treating equipment for this purpose is readily available and easy to use. If it is not possible to locate a local dealer, fix calcium hydroxide in the well pump discharge line. Fix sufficient calcium hydroxide to produce a free chlorine residual of at least 0.2 ppm for at least 60 minutes contact period. Regular testing is necessary and a record of test readings should be kept.

Flowing Artesian Wells: Artesian wells generally do not require disinstruction. If analyses indicate persistent contamination, the well should be divided into “tanks” by your local Health Department for further details. After initial treatment, maintain a free chlorine residual of 0.2 ppm to 0.6 ppm in the water outlet after a minimum 20-minute contact period as directed previously.

FPA Reg. No. 748-239-150
EPA Est. No. 748-HV-1
USDA Product No. 635070
PPG Product No. 20077
LC01592D011EUAN-1110X
ES090316 REV110106

rev. 10-25-2011
CALCIUM HYPOCHLORITE, HYDRATED UN2880 RQ

EMERGENCY TELEPHONE NUMBER 1-412-434-4515

 STOP!
DO NOT MIX WITH OTHER PRODUCTS BEFORE USE

Oxidizer
5.1