

High-test (%) Calcium Hypochlorite



THIS IS USED TO MAKE A DISINFECTING AGENT

- DO NOT DRINK OR EAT DIRECTLY- IT WILL KILL YOU!

How to Disinfect Water Using Calcium Hypochlorite:

Using granular calcium hypochlorite to disinfect water is a two step process.

Step 1: Add and dissolve one heaping teaspoon of high-test granular calcium hypochlorite (approximately ¼ ounce) for each two gallons of water, or 5 milliliters (approximately 7 grams) per 7.5 liters of water. **(Do not drink this!)** The mixture will produce a stock chlorine solution of approximately 500 milligrams per liter, since the calcium hypochlorite has available chlorine equal to 70 percent of its weight. Store out of direct sunlight, in a sealed container. **The solution should be discarded after two weeks.**

Step 2: To disinfect water, add the chlorine solution in the ratio of one part of chlorine solution to each 100 parts of water to be treated. This is roughly equal to adding 1 pint (16 ounces) of stock chlorine to each 12.5 gallons of water or (approximately ½ liter to 50 liters of water) to be disinfected. Shake or stir, then let the mixture sit for at least one hour before drinking. (Longer if the temperature is below 60 F.) A faint chlorine odor should be present. To remove any objectionable chlorine odor, aerate the disinfected water by pouring it back and forth from one clean container to another.

Alternate Method: To make a 5% chlorine solution using the “drop method” of disinfecting water, add and dissolve ½ teaspoon of 65-70% calcium hypochlorite to ¾ cup of water. This will decay at the same rate of purchased 5.25% bleach.

Available Chlorine Solution Drops per Quart/Gallon of Clear Water:

1% 10 per Quart
4-6% 2 per Quart
7-10% 1 per Quart

Available Chlorine Solution Drops per Liter of Clear Water:

1% 10 per Liter
4-6% 2 per Liter
7-10% 1 per Liter

1% 40 per Gallon
4-6% 8 per Gallon
7-10% 4 per Gallon

(If the strength of the bleach is unknown, add ten drops per quart or liter of filtered and settled water. Double the amount of chlorine for cloudy, murky or colored water or water that is very cold.)

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