

Hypochlorite Solution and Water Disinfection

This will allow you to make a 5% stock bleach solution, which can then be used for multiple purposes (disinfecting water, cleaning surfaces, etc). Storing this in a powder form (Calcium Hypochlorite) provides more options, and allows you to create small or large batches of solution so you don't have to waste large amounts of liquid bleach once they expire.

Find dry Calcium Hypochlorite (Pool Shock) that is 65 % or higher mix.

Amount of dry Calcium Hypochlorite	Amount of Water	Square Yards* Covered	Square Meters Covered
1 1/2 teaspoon	1 Cup		
2 Tablespoons	1 Quart		
4 Tablespoons	2 Quarts		
1/2 cup (.499)	1 Gal	8	7
2 1/2 cups (2.43)	5 Gal	40	35
5 cups (4.86)	10 Gal	80	70
7 1/3 cups (7.30)	15 Gal	120	105
3 Quarts (3.04)	25 Gal	200	175
6 Quarts (6.08)	50 Gal	400	350
2 Gal, 1 1/5 Quarts (2.28)	75 Gal	600	525
3 Gal (3.03)	100 Gal	800	700
4 1/2 Gal (4.55)	150 Gal	1200	1050
6 Gal (6.08)	200 Gal	1600	1400
7 Gal, 2 1/2 Quart (7.599)	250 Gal	2000	1750

* 1 square yd = 9 square ft.

Using Liquid Chlorine for Water Disinfection

Amount of Water	Amount of Bleach for Clear Water	Amount of Bleach for Cloudy or Questionable Water
1 Quart	2 drops	4 drops
2 Quarts	4 drops	8 drops
1 Gallon	8 drops	16 drops
5 Gallons	1/2 teaspoon	1 teaspoon
15 Gallons	1 1/2 teaspoon	1 Tablespoon
30 Gallons	1 Tablespoon	2 Tablespoons
55 Gallons	5 1/2 Teaspoons	11 Teaspoons

Using Iodine for Water Treatment

To disinfect water with iodine, you will need liquid iodine (2%) or iodine tablets. If using tablets follow the directions per the packaging. For liquid iodine add 5-10 drops per 32 oz or 1 Liter of water. Based on the water source you may need to add more or less.

- Clear or cloudy water. Cloudy = more drops like 8-10
- Still or moving water. Still = more drops like 8-10
- 8 is a good standard number, but 5 may be preferred depending on your aversion to the taste of iodine.

Steps:

- Fill your water container from water source.
- Add the iodine tablets or drops to the water based on the container size and number of tablets or drops needed.
- Close the lid and let the water sit for 5 minutes.
- Tilt the bottle upside down and slowly open to allow just enough of the iodine water to spill over and cover the rings of the lid that may still have contaminated water on them.
- Close the lid again and let stand for another 30 minutes. Allow more time the colder the water is.
- Enjoy your iodine infused water

CAUTION:

Do not use Iodine over an extended period of time (3 wks) because it can lead to thyroid problems and iodine sensitivity due to extended exposure. Do not drink iodine water if you are pregnant, have a thyroid problem, or are very sensitive to iodine.

