

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

