

Procedures for Disinfection of Tanks with Hypochlorite Solution

1. Drain tank and clean it thoroughly. A high-pressure hose or pressure washer is recommended. Remove loose debris and dirt.
2. Fill the tank to one foot in depth.
3. Add hypochlorite solution to the tank. The amount of hypochlorite added to the tank should be sufficient to achieve a minimum of a 10 mg/l free chlorine in the water when the tank is filled to its normal operating level. The values given in the table below can be used to determine how much to add.

Note: If the water has a higher than normal chlorine demand (such as waters with high iron or manganese, hydrogen sulfide or color), use the amount listed to achieve a 20 mg/l dosage.

Amount of sodium hypochlorite for 10,000 gallons of water
Adjust the quantity to fit your tank size

Volumes given are not exact but have been rounded to an even measurement quantity.

<u>Target chlorine concentration (mg/l)</u>	<u>5.25% chlorine</u>	<u>12.5% chlorine</u>
2	0.5 gallons	1 quart
10	2 gallons	1 gallon
20	4 gallons	1.75 gallons
50	10 gallons	4 gallons

4. Fill tank to its normal operating level and allow to sit full for 24 hours.
5. Once the free chlorine residual has reached a level of less than or equal to 2.0 mg/l, draw a sample from the tank and have it tested for the presence of total coliform bacteria. If the test for coliform bacteria is negative, the storage tank may be placed back into service.

Note: To reduce the free chlorine level to 2.0 mg/l it is often necessary to add a chemical dechlorination agent such as sodium bisulfate to neutralize the chlorine. As an alternative, the water in the tank may be disposed of and the tank refilled. However, the chlorine residual should be reduced to as close to zero as practical before disposing of the water. Disposal of chlorinated water by draining it into a surface water is illegal.

Attachment: Table showing amount of hypochlorite to achieve a 1 mg/l chlorine dosage.

Amount of sodium hypochlorite for a dosage of 1 mg/l

Choose the correct amount based on the strength of the hypochlorite you are using and the amount of water to be treated.

Tank Volume, gallons	5.25% Hypochlorite, Ounces	12.5% Hypochlorite, Ounces
500	2	0.5
1,000	3	1
2,000	5	2
3,000	8	4
4,000	11	5
5,000	13	6
10,000	25	11
20,000	51	21
30,000	76	32
40,000	102	43
50,000	127	53
100,000	254	107