



HOW TO DISINFECT DRINKING WATER

1. Boil water vigorously for 2 to 5 minutes, or
2. Disinfect water using common unscented liquid household bleach. Read the label for instructions or use the instructions below:
 - A. Use 2 drops liquid bleach per quart of water.
 - B. Mix thoroughly and allow to stand for 30 minutes before using.
 - C. Water should have a slight chlorine odor-if not, add one more drop of liquid bleach.

Note: For larger quantities of water, see the chart below:
Using common unscented liquid bleach (5% solution)

Desired PPM	1	5
Gallons of water	Bleach required	Bleach required
50,000	1 gallon	5 gallon
25,000	2 quarts	2.5 gallons
10,000	25.6 ounces	1 gallon
5,000	12.8 ounces	2 quarts
2,000	5.12 ounces	25.6 ounces
1,000	2.56 ounces	2.8 ounces
500	1.26 ounces	6.4 ounces
200	.512 ounce	2.55 ounces
100	.256 ounce	1.25 ounces
50	.13 ounce	.64 ounces
25	.064 ounce	.32 ounces
10	.026 ounce	.064 ounces

128 ounces = 1 gallon

(5%=unscented, liquid household bleach)

2.5 ounces of bleach (5%) / 1000 gallons of water = 1PPM

1.0 gallon of bleach (5%) / 1000 gallons of water = 50PPM

0.20 ounces of powdered chlorine (65-70% available)/1000 gallons of water= 1PPM

9.60 ounces of powdered chlorine (65-75% available)/1000 gallons of water=50PPM

CHEMICAL WATER PURIFICATION

1. Clear water is a sign of pure water. Always drain long-standing pipes for 30 seconds to one minute before drinking!
2. 1 Gallon water is disinfected by 8-16 drops of regular household bleach (visually about 1/4 of a teaspoon) - double that for cloudy water. Shake and let stand 30 minutes. One teaspoon will disinfect 5 gallons. Immediately after treating, water must initially have a slight smell of chlorine. If it does not - repeat the process.
3. Household bleach is relatively harmless. The smell or waft of chlorine is not bad: but it indicates that water has been treated and is germ free. Once water has been treated and disinfected, the chlorine smell will go away in a few days.
4. Regularly used water from large tanks may be treated once or twice a month with 1oz. bleach per 200 gallons or 5oz. bleach per 1000 gallons.
5. Long-standing water in tanks will be disinfected w/ 1 pint of household bleach per 1000 gallons. (2500 gal tanks are fine with 3 pints.)
6. Bleach effectively kills bacteria and viruses, stops smells and then breaks down. It's effective germ killing alkaline property is completely neutralized very quickly. It does not stay chemically active in tanks for more than a few days. Most germs require sunlight to grow. Store water in the dark.
7. If water is relatively clear: but has a noticeable smell of chlorine: it is drinkable, disinfected, and harmless. Humans need 2 quarts per day.

(Print and cut out for easy posting in a cabinet or put in first aid kit.