

# How to Disinfect Water After a Disaster

After a natural disaster, it is often the case that the water is not suitable for consumption. Please check with your local authorities to find out whether your water is safe.

**If you do not have access to bottled water, there are two simple options to disinfect your water:**

## 1. Boil the water for 1 minute



- If the water is cloudy, allow it to settle and then filter it with a clean cloth, paper towel or coffee filter.
- Boil the water for at least 1 minute (begin to count after the water reaches a rolling boil).
- Wait for the water to cool before consuming or storing.

## 2. Disinfect the water with household chlorine bleach



- If the water is cloudy, allow it to settle and then filter it with a clean cloth, paper towel or coffee filter.
- Use liquid household chlorine bleach (make sure that it is unscented) in the proper proportions indicated in the table below.
- Mix the water and bleach well and make sure to wait at least 30 minutes before use.
- The water should have a slight odor of chlorine bleach. If it doesn't, repeat the chlorine application and let it sit for another 15 minutes before use.

Volume of water	Concentration of chlorine bleach 6%	Concentration of chlorine bleach 8.25%
1 liter	2 drops	2 drops
1 gallon	8 drops	6 drops
2 gallons	16 drops ( $\frac{1}{4}$ teaspoon)	12 drops ( $\frac{1}{8}$ teaspoon)
4 gallons	$\frac{1}{3}$ teaspoon	$\frac{1}{4}$ teaspoon
8 gallons	$\frac{2}{3}$ teaspoon	$\frac{1}{2}$ teaspoon

### Warning!

Fruits and vegetables must be washed with boiled or disinfected water.

Use **no more than 1 teaspoon** of chlorine per gallon of water.

Water that is not suitable for consumption should not be used for cooking, washing dishes, brushing teeth or making ice cubes. Check the table below to determine which uses are safe according to each water supply source.

	Water supply source				
	Untreated rainwater	Treated rainwater	Surface water (rivers, streams, creeks)	Groundwater (untreated well water, not AAA)	Filtered, chlorinated, boiled or bottled water
1. Drinking	X	✓	X	X	✓
2. Cooking	X	✓	X	X	✓
3. Dish washing	X	✓	X	X	✓
4. Bathing	✓	✓	X	X	✓
5. Laundry	✓	✓	X	✓	✓
6. Oral hygiene	X	✓	X	X	✓
7. Infants	X	X	X	X	✓
8. Pet bathing	✓	✓	X	✓	✓
9. Cleaning	✓	✓	X	✓	✓
10. Toilet flushing	✓	✓	✓	✓	✓
11. Car washing	✓	✓	✓	✓	✓



Remember to disinfect the container before using it to store clean water.



Do not use water with floating substances, bad odors or dark colors. Never drink floodwater.

Sources:

- Centers for Disease Control and Prevention
- United States Environmental Protection Agency
- U.S. Department of Homeland Security - Federal Emergency Management Agency
- UPR Recinto de Ciencias Médicas – Programa de Salud Ambiental
- Oklahoma State University Food and Agricultural Products Research and Technology Center

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