

# Mixing of Chlorine (Bleach) Solution for Disinfecting

Household bleach (5.25% sodium hypochlorite) mixed with water, is an inexpensive and effective disinfectant. By mixing different amounts of bleach with water you can make a high, intermediate-high, intermediate, or low level disinfectant.

**High level disinfection** (approximately 5000 ppm)

**Preparing a 1: 10 Household Bleach Solution:**

- 62 ml ( 1/4 cup) household bleach + 562 ml ( 2 1/4 cups) water
- 250 ml (1 cup) household bleach + 2250 ml (9 cups) water

**Recommended Uses:**

- cleaning up a blood or body fluid spill
- when directed by public health
- for use on semi-critical medical and personal service instruments

**Intermediate - High level disinfection** (approximately 1000 ppm)

**Preparing a 1: 50 Household Bleach Solution:**

- 20 ml ( 4 teaspoons) household bleach + 1000 ml (4 cups) water
- 100ml ( 7 tablespoons) household bleach + 5000 ml ( 20 cups) water

**Recommended Uses:**

- for use in washrooms, change tables in childcare, during outbreaks of respiratory diseases or vomiting and diarrhea

**Intermediate level disinfection** (approximately 500 ppm)

**Preparing a 1: 100 Household Bleach Solution:**

- 5 ml (1 teaspoons) household bleach + 500 ml (2 cups) water
- 62 ml ( 1/4 cup ) household bleach + 6138 ml ( 24 3/4 cups) water

**Recommended Uses:**

- for use on non-critical medical or personal service instruments

**Low level disinfection** (approximately 100 ppm)

**Preparing a 1: 500 Household Bleach Solution:**

- 1ml ( 1/4 teaspoons) household bleach to 500ml (2 cups) water
- 20 ml (4 teaspoons) household bleach to 10 L (40 cups or approx. 2 gallons)

**Recommended Uses:**

- safe level for toys, dishes and utensils and food contact surfaces

**Remember:**

- A bleach and water solution should be mixed daily to preserve its strength
- Leave the solution on the surface for a minimum of one minute
- Cleaning must be done prior to disinfecting