Public Health & Emergency Services
410 Buller St., Woodstock, ON N4S 4N2
519-539-9800 or 1-800-755-0394

Mixing of Chlorine (Bleach) Solution for Disinfecting

Important

- 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

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 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
- for use in washrooms, change tables in childcare

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

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.

Adapted from the Middlesex-London Health Unit