How to make 0.1% chlorine solution to disinfect surfaces: Non-healthcare settings

Use 0.1% (1,000 ppm) chlorine solution to disinfect frequently touched surfaces and items. **Make new 0.1% chlorine solution every day.** Safely dispose of any leftover solution in a latrine or toilet/drain connected to a septic system or sewer.

**Supplies Needed**
- Rubber gloves
- Thick apron
- Closed toe shoes
- Face mask
- Eye protection
- Graduated 1-L bottle or measuring cup
- Bucket with lid
- Water
- 5% Liquid bleach
- 70% HTH
- 35% chlorine powder
- Stick for stirring
- Label

**Step 1:** Pour 400mL of 5% liquid bleach into a clean 20-L bucket.

**Step 2:** Fill bucket with water (or 1 part liquid bleach and 49 parts water for any volume).

**From Liquid Bleach (5%) OR From HTH (70%) OR From Chlorine Powder (35%)**

Proceed with only one of the following: 2a or 2b or 2c.

2a. **Add TWO tablespoons (30g) of high-test hypochlorite (HTH) (70%) to 20-L of water in a bucket.**

2b. **Add TWO tablespoons (30g) of high-test hypochlorite (HTH) (70%) to 20-L of water in a bucket.**

2c. **Add FOUR tablespoons (60g) of chlorine powder (35%) to 20-L of water in a bucket.**

Note: For 10-L bucket, use half the quantity of chlorine specified.

Stir well with stick for 10 seconds, or until chlorine powder/granules have dissolved.

Label bucket “NOT FOR DRINKING OR HANDWASHING/BATHING. 0.1% Chlorine Solution – Disinfecting.”

Tightly cover bucket with lid.

**WARNING**

Do NOT mix chlorine solution with other cleaning products or chemicals.

Do NOT put chlorine solution in mouth or eyes.

Seek medical attention if chlorine is ingested or breathing becomes difficult due to exposure.

Do not store in direct sunlight. Store supplies in a secured location, out of reach of children and away from fire/flames.