

# 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.

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



1

Make sure to wear **rubber gloves, a thick apron, closed toe shoes, a face mask and eye protection** such as safety glasses to avoid splashes.

From Liquid Bleach (5%)	OR	From HTH (70%)	OR	From Chlorine Powder (35%)
<p><b>400ml liquid bleach</b> 5% 20 liters (L) of water</p>		<p><b>2 tablespoons of HTH</b> 20 liters (L) of water</p>		<p><b>4 tablespoons of chlorine powder</b> 20 liters (L) of water</p>
<b>2a</b>		<b>2b</b>		<b>2c</b>

**Step1:** 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)

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

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.*



3

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



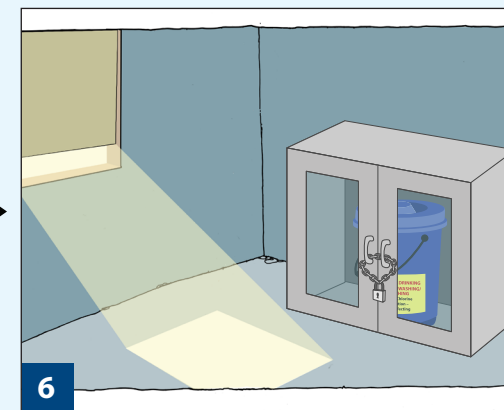
4

Label bucket **"NOT FOR DRINKING OR HANDWASHING/BATHING. 0.1% Chlorine Solution - Disinfecting."**



5

Tightly cover bucket with lid.



6

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

**Supplies Needed**

- Tablespoon
- Graduated 1-L bottle or measuring cup
- Bucket with lid
- Water
- 5% Liquid bleach OR 70% HTH OR 35% chlorine powder
- Stick for stirring
- Label

**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.