How to Make 0.1% Chlorine Solution to Disinfect Surfaces in Healthcare Settings

Use 0.1% (1,000ppm) chlorine solution to disinfect frequently touched surfaces and items. **Make new 0.1% chlorine solution every day.** Throw away any leftover solution from the day before.

### Supplies Needed

- Measuring cup or 1-liter bottle
- Bucket with lid and spigot
- Water
- 5% Liquid bleach **OR** 70% HTH **OR** 35% chlorine powder
- Stick for stirring
- Label

### How to Make 0.1% Chlorine Solution

1. **Make sure to wear required PPE.**

2. **From Liquid Bleach (5%)**
   - Pour 400mL of liquid bleach into a 20L bucket, then fill with water to 20L mark (or pour 1 part liquid bleach and 49 parts water for any volume).

3. **Stir well for 10 seconds, or until chlorine powder/granules have dissolved.**

4. **Wait 30 minutes before use.**

5. **Label bucket “0.1% Chlorine Solution – Disinfecting.”**

6. **Cover bucket with lid. Do not store in direct sunlight.**

### OR

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

3. **Wait 30 minutes before use.**

4. **Label bucket “0.1% Chlorine Solution – Disinfecting.”**

5. **Cover bucket with lid. Do not store in direct sunlight.**

### OR

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

4. **Wait 30 minutes before use.**

5. **Label bucket “0.1% Chlorine Solution – Disinfecting.”**

6. **Cover bucket with lid. Do not store in direct sunlight.**

### Supplies Needed

- 2a. Measuring cup or 1-liter bottle
- 2b. Bucket with lid and spigot
- 2c. 4 tablespoons of chlorine powder

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

### WARNING

- Do NOT mix chlorine solution with other cleaning products.
- Do NOT put chlorine solution in mouth or eyes.