Mixing of Bleach Solution for Disinfecting PPE

Important Considerations

- For greatest effectiveness, prepare bleach solutions fresh daily, preferably just prior to use.
- Allow all bleach solutions to stand for at least 30 minutes before using.
- All containers should be labeled "Bleach-disinfected water: DO NOT DRINK."
- CAUTION: Never mix bleach with products containing ammonia.

Preparing a 1: 10 Bleach Solution

Amount of	Amount of	
Bleach	H ₂ O in ounces	Standard Units
5/8 teaspoon	1	1/8 cup
2 ³ / ₈ teaspoon	4	½ cup
1 ½ Tablespoons	8	Cup
3 ¼ Tablespoons	16	Pint
6 ½ Tablespoons	32	Quart
¾ cups	64	Half Gallon
1 5/8 cups	128	Gallon

Disinfection guidelines

Surfaces and items to disinfect

• Floors, door knobs, window handles, buttons, switches, furniture surfaces, ventilators, computers, keyboards, fans, etc.

Disinfection procedures

- Start with wiping clean the less soiled surfaces.
- Allow articles and surfaces to dry for at least ten minutes.
- Wear a mask and rubber gloves while using bleach.

Precautions for preparing/using diluted bleach

- Use a mask, rubber gloves, and waterproof apron.
- ❖ Mix and use bleach solutions in well-ventilated areas.
- Mix bleach with <u>cold water</u>; hot water decomposes the sodium hypochlorite and renders it <u>ineffective</u>.

Precautions for the use of bleach

- Bleach can corrode metals and damage painted surfaces.
- Bleach should not be used together with, or mixed with, other household detergents because this reduces its effectiveness and can cause chemical reactions.
- Undiluted bleach liberates a toxic gas when exposed to sunlight and should be stored in a cool, shaded place, out of the reach of children.
- ❖ Sodium hypochlorite decomposes with time. To ensure its effectiveness, purchase recently-produced bleach, and avoid over-stocking.
- Organic materials inactivate bleach; surfaces must be cleaned of organic materials before disinfection with bleach.
- ❖ Keep diluted bleach covered, protected from sunlight, in a dark container.

Personal Protective Equipment Specific Disinfection

*Personally Assigned Suits MUST be labelled to reduce cross contamination

- 1. Suits should be wiped to remove as much organic material as possible
- 2. Hang suit and spray in a well ventilated area
 - NOTE: Suit should stay wet for at least 10 minutes to provide adequate contact time
- 3. After suits are dry store in a ventilated area after drying

Goggles & Safety Glasses

**
There are 2 methods of disinfection **

Method 1

- 1. They should be wiped to remove organic materials
- 2. Then they should be washed with warm water and soap
- 3. After they have dried spray with disinfectant and allow to air dry

Method 2

- 1. They should be wiped to remove organic materials
- 2. Submerge in disinfectant for at least 10 minutes
- 3. Remove and allow to air dry