IACUC GUIDELINE: Preparation and Use of Clidox for Facility Cleaning

SOP # 706 IACUC Approval: March 3, 2016

A. Purpose

This Guideline describes the proper preparation and use of using Clidox for facility cleaning.

B. Materials

- CLIDOX®-S BASE
- Tap water
- CLIDOX®-S ACTIVATOR
- CLIDOX DE-ACTIVATOR
- PPE: including disposable gloves, gowns, face masks, eye coverings

C. Guideline

Use CLIDOX-S® at the 1:5:1 dilution for use in fogging/wet misting operations to sanitize surfaces as an adjunct to acceptable manual cleaning and disinfecting of room surfaces. Area must be precleaned with all gross soils removed prior to application. Pay close attention to safety issues and wear all appropriate personal protection equipment (gloves, face shield/eye goggles, lab coat, respirator suitable for acid mist, and booties). Please read Material Safety Data Sheets before using. Remove all animals and plants from area to be fogged. Remove or cover any equipment, light fixtures, or vents that should not be exposed to the CLIDOX-S®. Keep all people out of area while area is being treated. A turntable with an automatic timer provides the most uniform coverage. Follow specific directions from the fogger’s manufacturer. Make sure enough chemical is placed in the reservoir to complete the job. Remember when determining the size of the room, multiply length x height x width. Place fogger in a central unobstructed location. Fog until the entire area is moist using an automatic fogger. Follow specific directions from the fogger's manufacturer. Rinse fogger with water following use. Wipe down treated surface with fresh, DI or RO water to remove any residue within an 8-hour period following application to reduce the possibility of corrosion.

DECONTAMINATION OF INSTRUMENTS: Dismantle equipment, if possible, and rinse free of heavy soil and gross debris. Moderate amounts of organic soil will not lower the efficiency of CLIDOX-S®. Soaking is the best method of application; however, the solution may be applied by any convenient means (i.e., cloth, sponge, or spray). Allow surfaces to remain thoroughly wet with solution for five minutes. Rinse with fresh, DI or RO water within 8-hours of application to reduce the possibility of corrosion.
CHEMICAL NEUTRALIZATION:

To dispose of large quantities of CLIDOX®-S solution, the CLIDOX®-S mixed solution should be de-activated prior to neutralization. CLIDOX DE-ACTIVATOR will de-activate the solution when used at 2oz per gallon of mixed CLIDOX®-S solution. Then pH Control can then be added to raise the pH of the solution prior to discharge. 1/8 to 1/4 ounce per gallon is a recommended starting point when determining required amount of pH Control. Good ventilation is mandatory. Always wear personal protective equipment when dealing with chemicals.

BASIC GUIDELINE

This is only a basic guideline to help the customer set up their own SOP (Standard Operating Procedures). No two facilities are exactly the same, therefore, it is important that the customer design a procedure that will work for them. Please contact your PRL Representative if you have any questions. Refer to the master label for complete instructions.

1. **Remove all animals** and plant life from the areas to be decontaminated.
2. Obtain and wear all personal protective equipment necessary for procedure. Wear personal protective equipment including but not limited to a protective mask suitable for acid mist and chlorine if there is a possibility of exposure to mist.
3. Mix CLIDOX®-S (EPA REG # 8714-8) solution as directed. It is imperative that the mixing directions are followed accurately. Wait fifteen minutes before using.
4. If entire room is being disinfected, shut down HVAC system to the area(s) being treated. If total shut down is not possible, cover all in-going and out-going air ducts with plastic. Wipe down vent(s) with CLIDOX®-S solution before covering. Good ventilation is required for all other applications or procedures.
5. Cover any equipment or electrical outlets that should not be exposed to the CLIDOX®-S spray. Carefully wipe these surfaces with CLIDOX®-S solution before sealing.
6. Make sure ALL surfaces are wet and remain wet for a minimum of five minutes.
7. **IF ENTIRE ROOM WAS TREATED, THE ROOM SHOULD BE TOTALLY VENTILATED BEFORE RE-ENTRY!!!!** If ventilation system was shut down during the procedure, it may be possible to reenter the room in 2 to 4 hours. If the ventilation system was not shut down during the procedure, reentry depends on the amount of air changes per hour that your ventilation system is designed for.
8. Remove plastic coverings. Pharmacal suggests that surfaces are wiped down with DI or RO water to remove any residue within an 8-hour period following application to reduce the possibility of corrosion. Isopropyl alcohol may be used to remove the salt residue in critical care areas and hoods.

**MIXING**
MIXING
DIRECTIONS
FOR CLIDOX®-S SOLUTIONS EPA# 8714-8

COVERAGE:
One gallon of mixed solution will cover approximately 100 square feet.

APPLICATION METHODS:
Mop, cloth, sponge, spray.

1 Gallon = 128 ounces 29.57 Milliliters = 1 ounce

1 : 5 : 1 Dilution

1 part CLIDOX®-S BASE + 5 parts water + 1 part CLIDOX®-S ACTIVATOR = 5 parts
128 ounces divided by the five parts = 25.6

To mix 1 gallon:

CLIDOX®-S BASE: 1 part x 18.3 ounces = 18.3 ounces
Tap Water: 5 parts x 18.3 ounces = 91.5 ounces
CLIDOX®-S ACTIVATOR: 1 part x 18.3 ounces = 18.3 ounces

128.1 ounces

After mixing, let sit for 15 minutes before using.