

STONEHILL COLLEGE Clidox®-S SOP

The purpose of this Standard Operating Procedure (SOP) is to describe how to mix, use, and store Clidox-S effectively and safely. This SOP is intended to be a guide for all personnel, researchers, and students who use this disinfectant.

1. Introduction

Clidox®-S is a chlorine dioxide based sterilant. This product is Sporicidal, Tuberculocidal, Bactericidal, Virucidal and Fungicidal. Clidox®-S can be mixed at 1:3:1 or 1:18:1. This product kills both enveloped and non-enveloped viruses. Clidox®-S kills *Mycobacterium bovis* in 5 minutes at 20 °C when used on pre-cleaned surfaces. This product is virucidal (completely kills Herpes Simplex type 2 and Poliovirus type) when diluted at 1:18:1 at 3 minutes at 20 °C on pre-cleaned surfaces. Animal Care Facility uses Clidox on a 1:18:1 dilution.

2. Materials

- Eye protection
- Nitrile gloves (latex is only good for biological purposes)
- Clidox base
- Water
- Clidox activator
- Measuring cup
- Funnel
- Fume hood
- Spray bottle
- Changing station

3. Procedures

- a. Use proper PPE (eye protection, nitrile gloves, and lab coat).
- b. Mixing of the Clidox base, water, and Clidox activator must be done in the procedure room fume hood:
 - add one part Clidox base pour into clean container
 - add 18 parts water into container
 - swirl water and base together
 - add one part Clidox activator into solution and mix (the solution turns yellow when activated).
 - Label with Clidox 1:18:1 and expiration date (14 days after mixing date)
 - Pour into spray bottle label with Clidox 1:18:1 and expiration date
 - Store closed container in washroom
- c. Dilute Clidox is used under the changing station in area B to transfer the GDF 6 mice to clean cages.

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- Use nitrile gloves
- Turn on the changing station and light.
- Spray Clidox on all the surfaces of the changing station.
- Have a clean cage available in changing station and a bowl of Clidox inside the hood.

4. Safety

COMPONENTS AND HAZARD INFORMATION

PRODUCT IS MIXED ON SITE. CONSULT CLIDOX-S® BASE AND CLIDOX-S® ACTIVATOR MATERIAL SAFETY DATA SHEETS (MSDS) PRIOR TO USE.

MIXTURE OF BASE + WATER + ACTIVATOR = ACIDIFIED SODIUM CHLORITE
CHLOROUS ACID + CHLORINE DIOXIDE

WARNING STATEMENTS:

CAUTION: Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling. Wash contaminated clothing before reuse.

EMERGENCY AND FIRST AID PROCEDURES:

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.
- Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.
- Local emergency dial **5555** or Easton emergency **9-911**

If swallowed:

- Call a poison control center **9-1-800-222-1222** or doctor immediately for treatment advice.
- Have person drink large quantities of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If on skin:

- Rinse skin immediately with plenty of water for 15 - 20 minutes.
- Call a poison control center **9-1-800-222-1222** or doctor for treatment advice.

If on clothing:

- take off contaminated clothing

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Inhalation:

- Move to fresh air.
- Consult a physician if irritation of respiratory passages occur.

Clidox for Chemical Emergency call 9-1-800-424-9300

5. References: Clidox-s MSDS at www.pharmacal.com