CLIDOX-S® BASE
A CHLORINE DIOXIDE STERILANT
FOR USE WITH CLIDOX-S® ACTIVATOR
BACTERICIDAL - TUBERCULOCIDAL
VIRUCIDAL - FUNGICIDAL
Sterilizing Level: CLIDOX-S® diluted 1:3:1 kills bacteria including dries spores of
Clostridium sporogenes ATCC 3584 and Bacillus subtilis ATCC 19659 on environmental
surfaces in 5 hours at 25°C.
Disinfecting Level: CLIDOX-S® diluted 1:18:1 kills vegetative bacteria including
Pseudomonas aeruginosa ATCC 15442, Staphylococcus aureus ATCC 6558, and Salmonella
enterica ATCC 10708, pathogenic fungi (Trichophyton mentagrophytes ATCC 9933),
viruses*, and Mycobacterium bovis ATCC 35743 (tuberculosis bacteria) in 5 minutes at 20°C
when used on precleared surfaces.
ACTIVE INGREDIENT
Sodium Chlorite .................................................. 0.85%
OTHER INGREDIENTS .................................................. 0.15%
Total ................................................................. 100.00%
CAUTION: See first aid and precautionary statements on second panel of label.
*This product completely inactivates Minute Virus of Mice (Parvovirus) ATCC-VR-1346
when diluted 1:18:1 at 5 minutes at 21.5°C in the presence of 1% organic soil load. This
product completely inactivates Herpes Simplex Virus type 2 (G-Strain), Polio Virus type
1 (Brisilhde-VR-ATCC-S5), and Human Immunodeficiency Virus type 1 (R-Strain)
(HIV-1) (Associated with AIDS) when diluted 1:18:1 at 3 minutes at 20°C on pre-cleaned
surfaces.
EPA REF. NO. 8714-S EPA EST. NO. 8714-CT-1
KEEP OUT OF REACH OF CHILDREN
CAUTION FOR PROFESSIONAL USE ONLY
pharmacal
RESEARCH LABORATORIES, INC.
562 Captain Neville Drive, Waterbury, CT 06705

Net Contents:
Batch:

PRECAUTIONARY STATEMENTS:
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION: Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and
water after handling and before eating, drinking, chewing gum, or using tobacco. Wash
contaminated clothing before reuse.

FIRST AID
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.

If swallowed:
- Call a poison control center or doctor
immediately for treatment advice.
- Have person sip a glass 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 or clothing:
- Take off contaminated clothing.
- Rinse skin immediately with plenty of
water for 15 - 20 minutes.
- Call a poison control center or doctor
for treatment advice.

EMERGENCY NUMBER
Have the product container or label with you when calling a poison control center,
doctor, or going for treatment. You may also contact CHEMTREC at 1-800-424-9300
for emergency medical information.

PHYSICAL / CHEMICAL HAZARDS:
Long term exposure to this product will corrode carbon steel.
Solution may bleach clothing. Use in well ventilated areas.

Storage and Disposal
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.
Pesticide Storage: Store in a cool dry place in original containers. Always replace covers.
Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on
sites or at an approved waste disposal facility.
CONTAINER HANDLING (For containers equal to or less than 5 gallons): Non-refillable
container. Do not reuse this container to hold materials other than pesticides or dilute pesticides
(rusticle). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other
pesticide-related materials in the container. Contact your state regulatory agency to determine
allowable practices in your state. Triplo rinse container (or equivalent) promptly after emptying.
Triplo rinse as follows: Empty the remaining contents into application equipment or a mix tank and
drain for 10 seconds after the flow begins to drip. Fill the container half full with water and recap.
Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for
later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two
more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill,
or by incineration, or by other procedures allowed by state and local authorities.
CONTAINER HANDLING (For containers greater than 5 gallons): Non-refillable container. Do
not reuse this container to hold materials other than pesticides or dilute pesticides (rusticle). After
emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related
materials in the container. Contact your state regulatory agency to determine allowable practices in
your state. Triplo rinse container (or equivalent) promptly after emptying. Triplo rinse as follows:
Empty the remaining contents into application equipment or a mix tank. Fill the container half
full with water. Replace and tighten closures. Tip container on its side and roll it back and forth,
ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it
back and forth several times. Turn the container over onto its other end and tip it back and forth
several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later
use or disposal. Repeat this procedure two more times. Then offer for recycling if available or
puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by
state and local authorities.

DILUTIONS:
STERILIZATION: Articles should be thoroughly cleaned prior to treatment and immersed in
CLIDOX-S at a 1:3:1 dilution for 2 hours at 25°C. Mix with water as follows: Dilute 1 part
CLIDOX-S BASE into 3 parts tap water (20°C - 30°C), then add 1 part CLIDOX-S ACTIVATOR,
making 5 parts total. CLIDOX-S ACTIVATOR must be used with CLIDOX-S BASE. Example: Pour
100 mls. CLIDOX-S BASE into 300 mls. tap water, then add 100 mls. CLIDOX-S
ACTIVATOR for a total of 500 mls. CLIDOX-S solution will appear pale yellow. Once mixed,
the solution should be used within 14 hours.
DISINFECTING: A 1:18:1 (1 part CLIDOX-S BASE into 18 parts tap water, then add 1 part
CLIDOX-S ACTIVATOR) dilution may be used for disinfection at 20°C for 5 minutes. (Once
mixed, the solution should be used within 14 days.)
FOGGING DILUTION: A 1:5:1 dilution is recommend for use in fogging/wet misting
operations to sanitize surfaces as an adjunct to acceptable manual cleaning and sanitation of
room surfaces. (1 part CLIDOX-S BASE into 5 parts tap water, then add 1 part CLIDOX-S
ACTIVATOR) dilution may be used for sanitation at 20°C for 5 minutes. (Once mixed, the
solution should be used within 14 days.)
IMPORTANT: Mix and let sit for 15 minutes before using.
DIRECTIONS FOR USE
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING

STERILIZATION:
CLIDOX-S® solution can be used for the sterilization of hard, nonporous, inanimate, environmental surfaces such as stainless steel, plastics (such as: polycarbonate, polyvinyl chloride, polypropylene, and polystyrene), tile, and glass. For use in laboratory animal breeding and research animal quarters for controlling cross-contamination of microorganisms infectious to these animals and humans from treated surfaces.

Clean articles thoroughly prior to treatment and immersion in CLIDOX-S® at a 1:3:1 dilution for 5 hours at 25°C. Lumen of any hollow instrument must be flushed and filled. Aseptically transfer the treated articles to a sterile enclosed container for air drying. Judgment of the user according to individual techniques may require rinsing with sterile water as an alternative to air drying.

DISINFECTION:
CLIDOX-S® solution can be used at the 1:18:1 dilution for 5 minutes at 20°C for the disinfection of hard, nonporous, inanimate, environmental surfaces such as stainless steel, plastics (such as: polycarbonate, polyvinyl chloride, polypropylene, and polystyrene), tile, and glass. Instruments can also be decontaminated with this product prior to sterilization. For use in laboratory animal breeding and research animal quarters for controlling cross-contamination of microorganisms infectious to these animals and humans from treated surfaces. Also for use in laboratories, dental and medical offices, hospitals, and other health care facilities.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization.

Kills HIV-1 (AIDS virus) on precleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood/body fluids, and in which the surfaces/objects likely to be soiled with blood/body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS).

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 (AIDS VIRUS) OF SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUID:

Personal Protection: Disposable latex or vinyl gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning of blood/body fluids and during decontamination procedures.

Cleaning Procedures: Blood/Body fluids must be thoroughly cleaned from surfaces/objects before application of this product. Contact Time: HIV-1 (AIDS virus) is inactivated after a contact time of 2 minutes at 23°C (room temperature). Although efficacy at a 2-minute contact time has been shown to be adequate against HIV-1 (AIDS virus), this is not sufficient for the non-HIV organisms listed on the label. Therefore, a 5-minute contact time must be used for disinfection against all listed, non-HIV organisms.

Disposal of Infectious Material: Blood/body fluids should be autoclaved and disposed of according to federal, state, and local regulations for infectious waste disposal.

APPLICATION:
Soaking is the best method of application; however, the solution may be applied by any convenient means (i.e., mop, cloth, sponge, spray, or fogged). Surface must remain wet for a minimum of five minutes.

FOGGING DIRECTIONS:
Use CLIDOX-S® solution 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, faceshield/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.