

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

CHEMICAL AND PHYSICAL HAZARDS

Chlorine dioxide is a strong oxidizing agent. Contamination with other materials such as acids, chlorine, organic chemicals, etc. may cause a chemical reaction resulting in evolution of chlorine dioxide and heat. Explosion and/or fire could result. Chlorine dioxide is a poisonous explosive gas. Keep all chemical and foreign materials away from this solution.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Do not store with easily oxidizable materials, acids, reducers, and combustible material. Avoid heat or freezing conditions. Store upright and do not stack drums over two high on pallets or partially filled drums. Use of a drum pump is suggested. Keep drum tightly closed when not withdrawing liquid. In case of spills, dilute with large quantities of water. Do not allow liquid to dry because this could present a fire hazard. Store only in the original container and take care to prevent cross-contamination with other pesticides, fertilizers, food and feed.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EMERGENCY HANDLING: In case of contamination or decomposition, do not reseal container. Isolate in open, well-ventilated area. Flood with large volumes of water. Cool unopened drums in vicinity by water spray.

NOTICE: Seller expressly warrants that the product conforms to its chemical description. There are no warranties associated with the sale of the product either express or implied, including but not limited to the warranties of fitness for a particular purpose or use.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

The efficacy of **SaniVex®** depends on the degree of activation. Unactivated SaniVex® effectively controls microbes in processing waters and mold and mildew. For disinfection and sanitization, SaniVex® must be activated. Read the activation instructions carefully prior to using SaniVex®.

SaniVex® can be used to treat hard, non-porous surfaces and water systems in: hospitals, medical and dental offices, food processing facilities, bottling plants, breweries, meat-packing plants, poultry-processing plants, fish-processing plants, food storage areas, institutional kitchens, dairy and poultry farms and production facilities, mushroom production facilities, animal research facilities, agricultural storage facilities (including containers, trailers, rail cars, vessels and bins), animal transport vehicles and equipment, animal confinement and rearing facilities, animal handling facilities, egg processing plants, livestock facilities, hatcheries, hotels, business and office buildings, institutional facilities, public facilities.

SaniVex® is an effective disinfectant against the following bacteria at a 300 ppm activated use-solution of SaniVex® (~30 ppm free chlorine dioxide) in 10 minutes in the presence of 5% organic serum.

- -Pseudomonas aeruginosa (Pseudomonas)
- -Staphylococcus aureus (Staph)
- -Salmonella cholerasuis (Salmonella)

SaniVex® is tuberculocidal (effective against Mycobacterium bovis, BCG) at a 1200 ppm activated use-solution of SaniVex® (~200 ppm free chlorine dioxide) in 10 minutes at 20 deg C.



2% AQUEOUS STABILIZED CHLORINE DIOXIDE

Active Ingredient:
Chlorine Dioxide..... 2.0%
Inert Ingredients..... 98.0%
100%

Hospital Disinfectant -Food-Contact Surface Sanitizer- Food Processing Water Sanitizer- Disinfectant – Sanitizer – Virucide - Tuberculocide

Hospital Use – Food Processing Water – No rinse Sanitizer – Institutional Use – Non-Flammable – Eliminates Mold and Mildew – Mold and Mildew Control – Combats Mold and Mildew – Concentrated Broad Spectrum Biocide – Farm Premise Sanitation – Poultry Premise Sanitation – Animal Laboratory Disinfection

KEEP OUT OF THE REACH OF CHILDREN CAUTION

SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS

First Aid

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.

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 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed: Call 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 inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

For 24 hour emergency information on this product, call Chemtrec at 1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands) 1-703-527-3887 (All Other Areas)

Hotline: You may also contact the National Poison Control Center at 1-800-222-1212 for Emergency Medical Advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

REG. NO. 9150-3-74495 E.P.A. EST. NO. 74718-OK-001

NET CONTENTS. _____ OZ.

Manufactured for:



SANI VEX TECHNOLOGIES, INC.
Oklahoma City, OK 73112
www.sanivex.com

SaniVex® is an effective virucide against the following viruses at a 800 ppm activated use-solution of SaniVex® (~100 ppm free chlorine dioxide) in 10 minutes, 15 minutes for Canine parvovirus ATCC VR-2017.

- HIV-1 (AIDS Virus) HTLV-III_B
- Canine parvovirus ATCC VR-2017
- Rat coronavirus RCV-SDA-681
- Mouse hepatitis virus MHV-A59
- Minute virus of mice MVM-P
- Parainfluenza virus, Type 1 ATCC VR-105 SENDEI/52

SaniVex® is an effective sanitizer against Salmonella typhi at a 100-200 ppm activated use-solution of SaniVex® in 30 seconds.

An unactivated use-solution of 1000 ppm of **SaniVex®** effectively controls mold and mildew in 60 seconds.

Preparation of SaniVex® Use-Solutions

Disinfectant Use-Solution

Prepare an activated 300 ppm use-solution of SaniVex® by using **one** of the three procedures described below.

1. Add 1 part SaniVex® to 64 parts water and then adjust the pH of the diluted SaniVex® to 2.6 with acetic, citric, phosphoric, sulfuric, hydrochloric or other equivalent acid. Please contact your IDI or authorized representative regarding equivalent acids. Prepare in a well-ventilated area and avoid breathing any fumes which may be produced during activation.
- Alternatively to minimize worker handling, an automated system can also be utilized that will safely activate the concentrate of SaniVex® with any of the various acids listed to deliver the proper pH and safety dilute the material to the 300 ppm working solutions.
2. Add 2 fl. oz. of SaniVex® to one (1) gallon of water into a clean plastic pail and add 1.2 grams of Activator C or 8.6 grams of Activator K. Allow 15 minutes reaction time and for the activator to completely dissolve. Prepare in a well-ventilated area and avoid breathing any fumes, which may be produced during activation.
3. An activated 300 ppm use-solution of SaniVex® can also be prepared electrolytically by adding SaniVex® directly to the OXYCHLOR® e-generator. For proper operation, of the OXYCHLOR® e-generator, consult the OXYCHLOR® e-generator manual or your IDI or authorized representative.

Tuberculocidal Use-Solution

Prepare an approximate 1200 ppm use-solution of SaniVex® (200 ppm of free chlorine dioxide) by adding 1 part of SaniVex® into a clean, plastic pail and then add 5 parts of a 10% acid activator solution. The acid activator can be acetic, citric, phosphoric, sulfuric, hydrochloric, glycolic, or other equivalent acid. Please contact your IDI or authorized representative regarding equivalent acids. Allow 60 minutes for reaction time and for the activator to completely dissolve. Then dilute the activated solution with 12 parts of water. Prepare in a well-ventilated area and avoid breathing any fumes that may be produced during activation.

Virucidal Use-Solution

Prepare an approximate 800 ppm use-solution of SaniVex® (100 ppm of free chlorine dioxide) by adding 1 part of SaniVex® into a clean, plastic pail and then add 5 parts of the 10% acid activator solution. The acid activator can be acetic, citric, phosphoric, sulfuric, hydrochloric, glycolic, or other equivalent acid. Please contact your IDI or authorized representative regarding equivalent acids. Allow 15 minutes for reaction time and for the activator to completely dissolve. Then dilute the activated solution with 20 parts of water.

Food-Contact Surface Sanitizing Solution

Prepare a 200 ppm activated use-solution of SaniVex® by using **one** of the three procedures described below:

1. Add 1 part SaniVex® to 3 parts water and then activate by adding food-grade citric, phosphoric, acetic or other equivalent food-grade acid (of at least 99% purity) to a pH of 2.6. Please contact your IDI or authorized representative regarding equivalent acids. Agitate for 5 minutes and then allow to stand for 15 minutes. Then dilute 1 part of the activated solution with 24 parts of water.

Alternatively to minimize worker handling, an automated system can also be utilized that will safely activate the concentrate of SaniVex® with any of the various acids listed to deliver the proper pH and safety dilute the material to the 200 ppm working solutions.

2. Add 1 gallon of SaniVex® to 20 gallons of water followed by 12 grams of Activator K. Allow to stand for 15 minutes after agitation for 5 minutes and then dilute 1 part with 4 parts of water.
3. An electrolytically activated use-solution can be prepared by adding SaniVex® directly to the OXYCHLOR® e-generator. The activated use-solution prepared by the OXYCHLOR® e-generator must contain between 50-100 ppm of an activated use-solution of SaniVex®. For proper operation of the OXYCHLOR® e-generator, consult the OXYCHLOR® e-generator system manual or your IDI or authorized representative.

Mold & Mildew Use-Solution

Prepare a 1000 ppm use-solution of SaniVex®, by placing 1 part SaniVex® per 20 parts working solution (1,000 ppm available chlorine dioxide) into a clean, plastic pail or drum. Dilute with clean, potable water.

APPLICATION INSTRUCTIONS:

FOOD PROCESSING PLANTS, FOOD-HANDLING ESTABLISHMENTS AND RESTAURANTS

SaniVex® can be used to:

- To control microbial contamination, slime and odor in food processing waters.
- To sanitize food processing equipment and surfaces in food processing and food-handling establishments.
- To sanitize food-contact surfaces and utensils in food-handling establishments.
- To disinfectant non-food contact surfaces in food-processing plants, food handling establishments and restaurants.
- For use as a terminal food-contact surface sanitizer rinse conforming to 40 CFR 180.940 (b) and (c) Food Contact Surface Sanitizing Solutions.

Specific Applications

Use SaniVex® as a Terminal Sanitizing Rinse for Stainless Steel Tanks, Transfer Lines, On-line Equipment, Recirculating and Clean-in-Place (CIP) systems, Food-Contact Surfaces and similar surfaces, such as tables, trays, bins, etc., utensils and Food-Processing Equipment in Poultry, Meat, Fish & Meat Processing Plants, Dairies, Bottling Plants, Restaurants, Canneries and Breweries

1. Prior to sanitization, remove all gross food particles and soil by use of a pre-flush, pre-scrub or pre-soak treatment. Then clean all lines, tanks, or surfaces with a suitable detergent followed by a potable water rinse.
2. Prepare the **Food-Contact Surface Sanitizing Solution** as described above.
3. Fill, immerse, circulate, wipe or spray the target surface with the sanitizing solution making sure the surface area is thoroughly wet for at least one minute. Hard to reach in-place equipment, pipes, closed vessels, etc., should be filled with the sanitizing solution to ensure contact of all surfaces. Use suitable protective breathing apparatus when spraying the solution on external equipment.
4. Allow the sanitizing solution to drain from all treated surfaces and air dry. Do not rinse treated surface.
5. The above solution may not be reused for sanitizing but may be diluted to 1:5 with water and used for cleaning of walls, floors and drains of the plant.

Use SaniVex® to Extend Freshness and Shelf Life of Fruits and Vegetables

1. Before treatment, whole fruits and vegetables should be washed and thoroughly rinsed with clean, potable water.
2. In a one (1) gallon container, add 1/3 fl. oz. (10 ml) of SaniVex® and add 0.002 grams of Activator-C or adjust the pH to 2.6 with vinegar. Allow to stand for 15 minutes then add to 9 gallons of water.
3. **Pretreatment for Uncut, Unpeeled Fruits and Vegetables:** Dip uncut, unpeeled fruits and vegetables in treatment solution for about ten (10) to twenty (20) seconds, then follow with a potable water rinse.

Use SaniVex® To Disinfect Non-Food Contact Surfaces (Walls, Ceilings, Drains and Floors) in Food Processing Plants and Food-Handling Establishments.

1. Before disinfection, all gross filth must be removed from areas to be disinfected and thoroughly cleaned with a suitable detergent followed by a clean, potable water rinse.
2. Prepare the **Disinfectant Use-Solution** as described above.
3. Apply the disinfectant use-solution to hard, non-porous surfaces, thoroughly wetting surfaces with a cloth, mop, sponge or sprayer, or by immersion. Treated surfaces must remain wet for 10 minutes. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled surfaces, a pre-cleaning is recommended.
4. For sprayer applications, use a coarse spray device. Spray 6-8 inches from the surface rub with a brush, sponge or cloth. Do not breathe spray. Make sure that the area is thoroughly wet for at least ten (10) minutes. Active solutions may be irritating when breathed; therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions.
5. After application, allow to air dry. Treat as required. Always apply freshly made solutions. Never reuse activated solutions.

TRANSPORT VEHICLES

To Disinfect Hard, Non-porous Surfaces in Vehicles Including Animal Transport Vehicles, Rail Cars, Trailers and Vessels. Active solutions may be irritating when breathed; therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions.

1. Prior to application of SaniVex®, clean all vehicles with high-pressure water and a suitable detergent.
2. Follow directions for **Disinfectant Use-Solution** as described above.
3. Then apply the disinfectant use-solution to all surfaces to be treated. All treated surfaces must remain wet for at least 10 minutes.

HOSPITALS, INSTITUTIONS, MEDICAL AND DENTAL CLINICS, and VETERINARY CLINICS.

Note: The Oxychlor e-generator has not been tested against *Pseudomonas aeruginosa*. The Oxychlor e-generator is not approved for use in hospitals, laboratories, morgues, and other institutions.

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 pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SaniVex[®] can be used to:

- To disinfectant environmental surfaces.
- To control mold and mildew on environmental surfaces.
- To control animal viruses on environmental surfaces.
- To control odor and slime forming bacteria.

Specific Applications

To Disinfect Walls, Ceilings and Floors and other Environmental Surfaces in Hospitals, Institutions, Veterinary Clinics, and Animal Research Facilities

1. Before disinfection, all gross filth must be removed from areas to be disinfected and thoroughly cleaned with a suitable detergent followed by a clean, potable water rinse.
2. Prepare the **Disinfectant Use-Solution** as described above.
3. Apply the disinfectant use-solution to hard, non-porous surfaces, thoroughly wetting surfaces with a cloth, mop, sponge or sprayer, or by immersion. Treated surfaces must remain wet for 10 minutes. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled surfaces, a pre-cleaning is recommended.
4. For sprayer applications, use a coarse spray device. Spray 6-8 inches from the surface rub with a brush, sponge or cloth. Do not breathe spray. Make sure that the area is thoroughly wet for at least ten (10) minutes. Active solutions may be irritating when breathed; therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions.
5. After application, allow to air dry. Treat as required. Always apply freshly made solutions. Never reuse activated solutions.

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV OR SURFACES/ OBJECTS SOILED WITH BLOOD/BODY FLUIDS that involve healthcare settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type I (HIV-I) (associated with AIDS). SaniVex[®] destroys HIV-1 (AIDS Virus) HTLV-III_B on precleaned environmental surfaces/objects previously soiled with blood or other body fluids in ten minutes contact

Personal Protection: The worker should wear protective equipment such as disposable latex or rubber gloves, gowns, masks and eye protection to prevent contamination from items soiled with blood or body fluids.

Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of SaniVex[®].

Contact Time: Allow SaniVex[®] to contact treated items for 10 minutes to kill HIV-1. This time may not control other common types of viruses and bacteria.

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

To Control Mold & Mildew and Slime Forming Bacteria on Walls, Floors, Ceilings, and Surfaces and other Environmental Surfaces

1. Before treatment, all soil and gross filth must be removed from areas to be treated and cleaned with detergent followed by a potable water rinse.
2. Follow the directions for **Mold & Mildew Control Use-Solution** as described above
3. **Application:** Drench, spray or fog solution on walls, floors, ceilings and surfaces using a suitable watering, spraying or fogging device and making sure all surface areas are wet. During application, area must be closed as tightly as possible and sealed. After spraying or fogging, the area should be opened and aired for one (1) hour before repopulating. Avoid breathing solution mist by use of an applicable NIOSH/MSHA respirator appropriate for chlorine dioxide. Avoid contact with food or food-contact surfaces. Allow to air dry.
4. Repeat application as needed.

To Disinfect Non-Porous, Hard Surfaces Such as Tile Floors, Walls and Ceilings and Stainless Steel Cold Rooms and Walk-In Incubators

1. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
2. Follow the directions for **Disinfectant Use-Solution** as described above.
3. **Application of Activated Disinfection-Solution:** Activated solutions may be sprayed, mopped or sponged onto surfaces to be disinfected. All surfaces must be thoroughly

wetted for at least ten (10) minutes. When spraying disinfectant solutions, use an appropriate spraying device. Active solutions may be irritating when breathed; therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions. After application, allow to air dry. Treat as required. Always apply freshly made solutions. Never reuse activated solutions.

As a Virucide to Kill Animal Viruses (Rat Coronavirus RCV-SDA-681, Mouse Hepatitis Virus MHV-A59, Minute Virus of Mice MVM-P and Canine Parvovirus ATCC VR-2017) Parainfluenza Virus Type 1 ATCC VR-105 SENDAI/52, HIV-1 HTLV-III_B) on Non-Porous, Hard Surfaces Such as Tile Floors, Walls and Ceilings and Stainless Steel Cold Rooms and Walk-In Incubators.

1. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
2. Follow the directions for **Virucidal Use-Solution** as described above.
3. **Application of Activated Use-Solution:** Activated solutions may be sprayed, mopped or sponged onto surfaces to be treated. All surfaces must be thoroughly wetted for at least ten (10) minutes (15 minutes contact time for canine parvovirus ATCC VR-2017). When spraying the virucidal solution, use an appropriate spraying device. Active solutions may be irritating when breathed; therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions. After application, allow to air dry. Treat as required. Always apply freshly made solutions. Never reuse activated solutions.

To Disinfect Bench Tops, Biological Hoods, Incubators, Stainless Steel Equipment and Instruments.

1. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
2. Follow the directions for **Disinfectant Use-Solution** as described above
3. **Application of Activated Use-Solution:** Activated solutions may be squirted directly onto surfaces from a plastic squeeze bottle or may be used as a soak solution. All contact surfaces must be thoroughly wetted for at least ten (10) minutes. Allow to air dry. Activated solutions of SaniVex[®], stored in plastic squirt bottles, may be held up to one (1) week before replacement with fresh solution. Soak solutions of SaniVex[®] should be changed daily.

To Disinfect Surfaces of Water Baths and Tubs

1. Prior to disinfection, thoroughly clean the bath or tub with a suitable detergent and rinse with clean water.
2. Follow the directions for **Disinfectant Use-Solution** as described above.
3. **To apply:** Turn circulating motor on and allow the water to circulate for at least (10) minutes. Drain tub completely. After the draining is finished, tub is ready for use.

To Disinfect Water Bath Incubators

1. Prior to disinfection, thoroughly clean the reservoir with a suitable detergent and rinse with clean water.
2. Follow the directions for **Disinfectant Use-Solution** as described above.
3. **To apply:** Activated solution should be poured into water bath reservoir and allowed to stand one (1) hour at room temperature. Drain reservoir and fill with fresh water.

To Deodorize Animal Holding Rooms, Sick Rooms, Morgues and Work Rooms

1. Rooms to be deodorized should be in a clean condition prior to SaniVex[®] application.
2. **Preparation of Use-Solution** Place 1 part SaniVex[®] per 20 parts working solution (1,000 ppm available chlorine dioxide) into a clean glass or plastic container.
3. **Application:** Spray solution using a suitable spraying device onto walls, ceilings and floors, lightly dampening all surfaces. Avoid breathing mist of solutions by using an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide. Allow to air dry, and then ventilate the area. Treat as required.

IN ANIMAL REARING & CONFINEMENT FACILITIES

To Disinfect Hard, Non-Porous Surfaces In Commercial Animal Confinement Facilities such as Poultry Houses, Swine Pens, Calf Barns and Kennels and for use in Laboratory Animal Breeding and Research Quarters for Controlling Cross-Contamination of Microorganisms Infectious to these Animals and Humans from Treated Surfaces

1. Remove all animals and feed from premises, vehicles, enclosures, coops and crates.
2. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap and detergent and rinse with water.
5. Follow the directions for **Disinfectant Use-Solution** as described above.
6. **Application:** Using a commercial sprayer, saturate all surfaces with the activated SaniVex[®] solution for a period of ten (10) minutes. Active solutions may be irritating when breathed; therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used for removing litter and manure.
7. After treatment, ventilate buildings, coops or other enclosed spaces and allow to air dry. Repopulate when solution has dried.
8. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before use.

As a Virucide to Kill Animal Viruses (Rat Coronavirus RCV-SDA-681, Mouse Hepatitis Virus MHV-A59, Minute Virus of Mice MVM-P and Canine Parvovirus ATCC VR-2017) on Non-Porous, Hard Surfaces in Commercial Animal Confinement Facilities Such as Poultry Houses, Swine Pens, Calf Barns, and Kennels and in Laboratory Animal and Research Quarters

1. Remove all animals and feed from premises, vehicles, enclosures, coops and crates.
2. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap and detergent and rinse with water.
5. Follow the directions for **Virucidal Use-Solution** as described above.
6. **Application of Activated Use-Solution:** Activated solutions may be sprayed, mopped or sponged onto surfaces to be treated. All surfaces must be thoroughly wetted for at least ten (10) minutes (15 minutes contact time for canine parvovirus ATCC VR-2017). When spraying virucidal solution, use an appropriate spraying device. Active solutions may be irritating when breathed; therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions. After application, allow to air dry. Treat as required. Always apply freshly made solutions. Never reuse activated solutions.
7. After treatment, ventilate buildings, coops or other enclosed spaces and allow to air dry. Repopulate when solution has dried.
8. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before use.

To Control Animal Odors on Pets and in Litter Boxes, Carpets and Concrete Floors

1. **For litter boxes:** Wash out litter boxes with suitable detergent and rinse with clean, potable water. Soak overnight in solution of one part SaniVex[®] per 32 parts of water (625 ppm available chlorine dioxide). Add litter, sprinkle surface liberally with SaniVex[®] solution.
2. **For controlling odors in carpets:** Add 1part SaniVex[®] per 40 parts (500 ppm available chlorine dioxide) of rug shampoo mix. Shampoo carpets. Allow to air dry. **NOTE:** SaniVex[®] may bleach some carpets and fabrics, especially if applied on top of another chemical agent. Do not apply until a sample test has been tried and observed for at least 24 hours.
3. **For concrete floors:** Clean floor thoroughly using a suitable detergent; rinse with clean water. Prepare solution by adding 1 part of SaniVex[®] per 16 parts of water (1,250 ppm available chlorine dioxide). Mop or spray solution liberally onto floor. Allow to air dry.
4. **For animal baths:** Wash animal well with appropriate pet shampoo; rinse with clean water. Prepare solution by adding 1 part SaniVex[®] per 200 parts of water (100 ppm available chlorine dioxide). Rinse animal thoroughly with prepared solution. Allow to air dry. Avoid direct contact with animal's eyes, nose and ears.
5. **For treating animal odors with high levels of ammonia:** Wash area thoroughly with suitable detergent and rinse with clean water. Preparation of solution: For each 32 parts of solution place 1 part SaniVex[®] into a clean, plastic container. To this concentrate, add 1 tablespoon household bleach and allow to react for five (5) minutes. Dilute with 32 parts of clean, potable water. Apply by mopping or spraying solution liberally onto area. Allow to air dry. Additional applications may be necessary.

ANIMAL TRANSPORT VEHICLES

To Disinfect Hard, Non-Porous Surfaces in Vehicles Including Animal Transport Vehicles, Rail Cars, Trailers and Vessels. Active solutions may be irritating when breathed; therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions.

1. Prior to application of SaniVex[®], clean all vehicles with high-pressure water and a suitable detergent.
2. Follow directions for **Disinfectant Use-Solution** as described above.
3. Then apply the disinfectant use-solution to all surfaces to be treated. All treated surfaces must remain wet for at least 10 minutes.

As An Area Deodorizer

Dilute 1 part SaniVex[®] with 7 parts water to obtain optimum deodorizing effects. To eliminate gaseous malodors, spray or mist until odor disappears. Three (3) seconds of spraying or fogging is need for each 1500 cu. feet. Where a fogging is used in very large areas, set device to run 1-2 minutes each hour or less as area is cleared of malodors. Avoid breathing solution mist by use of an applicable NIOSH/MSHA respirator appropriate for chlorine dioxide.

Specific Applications

To Disinfect Walls, Ceilings and Floors

- 1) Before disinfection, all gross filth must be removed from areas to be disinfected and thoroughly cleaned with a suitable detergent followed by a clean, potable water rinse.
- 2) Follow the directions for **Disinfectant Use-Solution** as described above.
- 3) **Application:** Spray disinfectant solution onto surface using a suitable spraying device and making sure that the area is thoroughly wet for at least ten (10) minutes. Active solutions may be irritating when breathed; therefore, always use an applicable NIOSH/MSHA approved respirator appropriate for chlorine dioxide when spraying these solutions. After application, allow to air dry. Treat as required. Always apply freshly made solutions. Never reuse activated solutions.

ANIMAL REARING AND CONFINEMENT FACILITIES

To Control Bacteria, Taste and Odor in the Water Supply System

1. If the water supply is badly fouled with boil, then add 5 ppm of available chlorine dioxide to the water supply by adding 1 part SaniVex[®] to each 4,000 parts animal drinking and animal cooling / comfort water.
2. After 24 hours, the addition rate can be reduced to 1 ppm of available chlorine dioxide by adding 1 part of SaniVex[®] to each 20,000 parts of animal drinking and animal cooling / comfort water.
3. If the microbiological content of the water is eliminated by this rate of addition, the concentration of available chlorine dioxide can be reduced to 0.5 ppm (1 part of SaniVex[®] per 40,000 parts of water); if the microbiological control is not adequate at 1 ppm available chlorine dioxide, then add 1.5 ppm of available chlorine dioxide to the animal drinking and animal cooling / comfort water (1 part of SaniVex[®] per 14,000 parts of water).