

**MB-10 Tablets**® are a unique formulation of sodium chlorite that rapidly produces the biocidal agent chlorine dioxide when mixed with water.

\*A 100 ppm use-solution of chlorine dioxide has been shown to be effective against: Vaccinia virus, Human Influenza A virus (Hong Kong), Porcine Respiratory and Reproductive Syndrome virus (PRRSV), Infectious bursal disease virus (IBDV), Marek's disease virus (MDV), Avian Influenza A (H3N2) virus, Porcine circovirus type 2, Canine Parvovirus, Hantavirus, Minute Virus of Mouse (Parvovirus) (MVM-p), Minute Virus of Mouse (Parvovirus) (MVM-i), Mouse Hepatitis Virus (MHV-A59), Mouse Hepatitis Virus (MHV-JHM), Mouse Parvovirus type 1 (MPV-1), Murine Parainfluenza virus type 1 (Sendai), Sialodacryoadenitis Virus (Coronavirus) (SDAV), Theiler's Mouse Encephalomyelitis Virus (TMEV), Corynebacterium bovis, and Helicobacter pylori after 10 minutes of contact and Foot and Mouth Disease Virus after 30 minutes of contact.

A 200 ppm use-solution of chlorine dioxide is a broad spectrum disinfectant effective against Hepatitis B Virus, Hepatitis C Virus, Newcastle Disease virus, Norovirus, Human coronavirus and the following gram negative and gram positive bacteria: Escherichia coli O157:H7, Pseudomonas aeruginosa, Staphylococcus aureus, Salmonella enterica, and Bordetella bronchiseptica after 10 minutes of contact. The 200 ppm use-solution is also effective against Staphylococcus aureus (MRSA) and Enterococcus faecalis (VRE) after 5 minutes of contact, tuberculocidal against Mycobacterium bovis after 5 minutes of contact at 20°C and virucidal against HIV-1 (the virus that causes AIDS) after 1 minute of contact and Feline Panleukopenia virus, Pseudorabies, Transmissible Gastroenteritis and Swine Influenza A Virus after 5 minutes of contact.

**MB-10 Tablets**® can be used as a disinfectant / virucide\* / tuberculocide in Hospitals, Medical, Dental, Industrial, Institutional and Manufacturing Facilities, Laboratory Animal Facilities, Clinical and Research Laboratories, Veterinary Clinics and Hospitals, Animal Rearing and Confinement Facilities, Animal Research Facilities and Laboratories, and other institutional/industrial applications that involve the housing of animals.

**MB-10 Tablets**® can also be used as a sterilant in manufacturing facilities, clinical laboratories, and Biosafety Level 3 and 4 (BSL-3 and BSL-4) facilities.

**MB-10 Tablets**® have demonstrated effectiveness against Influenza A virus (Hong Kong) and is expected to inactivate all Influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).

#### DIRECTIONS FOR USE

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

#### PREPARATION OF USE-SOLUTION:

**25 ppm Chlorine Dioxide (for sanitization of hard, nonporous food contact surfaces, including surfaces containing Salmonella enterica and Lysteria monocytogenes).**

In a clean plastic pail, place either one (1) 1.5 gram **MB-10 Tablet**® for every gallon of clean potable water, or one (1) 6.0 gram **MB-10 Tablet**® for every 4 gallons of clean potable water. Or, in a plastic pigmented spray bottle, place one (1) 1.5 gram **MB-10 Tablet**® for every gallon (4 liters) of clean potable water. Prepare in a well ventilated area. Wait 10 minutes for the 1.5 gram tab and 15 minutes for the 6.0 gram tab to completely dissolve. Once dissolved, this will yield a working solution of **25 ppm** of free chlorine dioxide. Once mixed, this solution should be stored in a tightly covered container and used within 7 days.

**100 ppm Chlorine Dioxide (for control of Foot and Mouth Disease Virus, Human Influenza A virus (Hong Kong), Avian Influenza A (H3N2) virus and animal viruses\*).**

In a clean plastic pail or plastic pigmented 1 gallon bottle, place either one (1) 6.0 gram **MB-10 Tablets**® or four (4) 1.5 gram **MB-10 Tablets**® for every gallon (4 liters) of clean potable water. Or, in a plastic pigmented spray bottle, place one (1) 1.5 gram **MB-10 Tablets**® for every quart (or liter) of clean, potable water. Prepare in a well ventilated area. Once dissolved, this will yield a working solution of **100 ppm** of free chlorine dioxide. Wait 10 minutes for the 1.5 gram tab and 15 minutes for the 6.0 gram tab to completely dissolve. Once mixed, this solution should be stored in a tightly covered container and used within 7 days.

**200 ppm Chlorine Dioxide (for disinfection of hard, nonporous surfaces and instruments, and to kill tuberculosis bacteria, Human coronavirus, HIV, Hepatitis B virus, Hepatitis C virus, Transmissible Gastroenteritis, Feline Panleukopenia virus, Newcastle Disease virus, Norovirus, Pseudorabies, and Swine Influenza A Virus).**

In a clean plastic pail or plastic pigmented 1 gallon bottle, place either two (2) 6.0 gram **MB-10 Tablets**® or eight (8) 1.5 gram **MB-10 Tablets**® for every gallon (4 liters) of clean potable water. Or, in a plastic pigmented spray bottle, place one (1) 1.5 gram **MB-10 Tablets**® for every pint (or 500 ml) of clean, potable water. Prepare in a well ventilated area. Wait 10 minutes for the 1.5 gram tab and 15 minutes for the 6.0 gram tab to completely dissolve. Once dissolved, this will yield a working solution containing **200 ppm** of free chlorine dioxide. Once mixed, this solution should be stored in a tightly covered container and used within 7 days.

**1000 ppm Chlorine Dioxide (for surface sterilization).**

In a clean plastic pail or plastic pigmented 1 gallon bottle, place eight (8) 6.0 gram **MB-10 Tablets**® for every gallon of clean potable water or eight (8) 1.5 gram **MB-10 Tablets**® for every liter of clean potable water. Or, in a plastic pigmented spray bottle, place one (1) 6.0 gram **MB-10 Tablets**® for every pint (or 500 ml) of clean, potable water. Prepare in a well ventilated area. Wait 15 minutes for the 6.0 gram tab to completely dissolve. Once dissolved, this will yield a working solution containing **1000 ppm** of free chlorine dioxide. Prepare fresh solutions daily.

# MB-10 TABLETS®

## Disinfectant / Virucidal\* / Tuberculocidal / Sterilant Food-Contact Surface and Potable Water Tank Sanitizer / Oxidizing Tablets

For use in Hospitals, Medical, Dental, Industrial, Manufacturing and Institutional Facilities, Laboratory Animal Facilities, Clinical and Research Laboratories, Veterinary Hospitals and Clinics, and Animal Rearing and Confinement Facilities.

### Active Ingredients:

Sodium Chlorite . . . . .	20.8%
Sodium Dichloroisocyanurate dihydrate . . . . .	7.0%
<b>Other Ingredients</b> . . . . .	<b>72.2%</b>
<b>Total</b> . . . . .	<b>100.0%</b>

KEEP OUT OF REACH OF CHILDREN  
**DANGER**

See back panel for First Aid and Precautionary Statements.

EPA Reg. No. 70060-19-46269 EPA Est. No. 46269-DE-01

**NET WEIGHT:**  
**1.5 Gram Tablets (300 ea.) 1.10 lbs. (450 grams)**

**Expiration Date:** \_\_\_\_\_

Manufactured for:



**Quip Laboratories, Inc.**

1500 Eastlawn Avenue • Wilmington, DE 19802  
TEL 800-424-2436 • FAX (302) 761-2611

Patent: 6,699,404  
Contains



Aseptrol and the Aseptrol logo are registered trademarks of BASF.

Sodium Chlorite in this product is from Spain.

### LABORATORY ANIMAL FACILITIES, ANIMAL REARING FACILITIES AND ANIMAL RESEARCH FACILITIES AND LABORATORIES

Use **MB-10 Tablets**® to disinfect and kill tuberculosis bacteria, HIV-1, Human coronavirus, Hepatitis B Virus, Hepatitis C Virus, Newcastle Disease virus, Norovirus, Foot and Mouth Disease Virus, Human Influenza A virus (Hong Kong), Avian Influenza A (H3N2) virus and animal viruses\* on hard non-porous surfaces such as floors, walls, counters, stainless steel environmental surfaces, bio-safety hoods, sinks, tiles, cages, coops, crates, kennels, instruments and utensils. Pre-clean surfaces and then apply either a 100 ppm chlorine dioxide solution (for Human Influenza A virus (Hong Kong), Avian Influenza A (H3N2) virus and animal viruses\*) or 200 ppm chlorine dioxide solution (for disinfection, HIV-1, Human coronavirus and TB control). Apply the use-solution with a cloth, mop, sponge or sprayer or by immersion. Treated surfaces must remain wet for 10 minutes (30 minutes for Foot and Mouth Disease Virus). Wipe dry with a cloth, sponge or mop or allow to air dry. For sprayer applications, use a coarse spray device. Spray 68 inches from the surface and spray until totally wet. Do not breathe spray. Allow to air dry.

### ANIMAL ROOM DISINFECTION DIRECTIONS USING AN ULTRA LOW VOLUME FOGGING DEVICE

Remove all animals and feed from animal room, vehicles and enclosures. Remove all litter from floors, walls and surfaces of the room to be treated. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Mix two (2) 6 gram **MB-10 Tablets**® or eight (8) 1.5 gram **MB-10 Tablets**® into one gallon of water making a 200 ppm solution of chlorine dioxide. Place Ultra Low Volume (ULV) fogger in center of room or insert the nozzle of the fogger through a suitable opening into the room. With the Flow Rate setting in HIGH output, apply fog for 15 minutes for each 3000 cubic feet of space in the room, thorough wetting of all surfaces is required.

**NOTE:** The fog generated is irritating to the eyes, skin and mucous membranes. Do not allow people to enter treated room until ten air exchanges or 2 hours of mechanical ventilation (i.e., fans). If the building must be entered, then the individuals entering the building must wear a self contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

### FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING FOR ROOM AND MACHINE SURFACES.

### INSTITUTIONAL AND INDUSTRIAL FACILITIES

Use **MB-10 Tablets**® to disinfect pre-cleaned surfaces in institutional and industrial facilities such as office buildings, food processing plants, schools, hotels and motels, recreational facilities, recreational centers, institutional kitchens, supermarkets, grocery stores, boats, public facilities and military installations. Apply a 200 ppm chlorine dioxide 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 (30 minutes for Foot and Mouth Disease Virus). Wipe dry with a cloth, sponge or mop or allow to air dry. For sprayer applications use a coarse spray device. Spray 6 - 8 inches from the surface and spray until totally wet. Do not breathe spray. Allow to air dry. A potable water rinse is required for any surface that may come into contact with food.

### HEALTH CARE AND VETERINARY FACILITIES

Use **MB-10 Tablets**® to disinfectant pre-cleaned surfaces and to decontaminate instruments in hospitals, medical and dental offices, veterinary offices, veterinary clinics, veterinary hospitals and related facilities. Apply a 200 ppm chlorine dioxide use-solution to hard, non-porous surfaces and/or instruments thoroughly wetting surfaces with a cloth, mop, sponge or sprayer or by immersion. Treated surfaces must remain wet for 10 minutes (30 minutes for Foot and Mouth Disease Virus). Wipe dry with a cloth, sponge or mop or allow to air dry. For sprayer applications, use a coarse spray device. Spray 6-8 inches from the surface and spray until totally wet. Do not breathe spray. Allow to air dry. The 200 ppm chlorine dioxide use-solution is effective against gram negative and gram positive bacteria, HIV-1, Human coronavirus, Hepatitis B Virus, Hepatitis C Virus, Newcastle Disease virus, Norovirus, Foot and Mouth Disease Virus, Human Influenza A virus (Hong Kong), Avian Influenza A (H3N2) virus, animal viruses\*, and tuberculosis bacteria.

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

### FOOD-CONTACT SURFACE SANITIZER

Use **MB-10 Tablets**® to sanitize hard, nonporous food-contact surfaces and utensils, such as food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage and display equipment and other hard surfaces in food processing plants, breweries, bottling plants, restaurants and other food handling establishments.

Prior to application, remove gross food particles and soil by a pre-flush, or pre-scrape and, when necessary, pre-soak. Then thoroughly wash or flush surfaces with a good detergent or compatible cleaner followed by a potable water rinse before application of the sanitizer solution. Apply a use solution of 25 ppm chlorine dioxide to pre-cleaned hard surfaces thoroughly wetting surfaces with a cloth, mop, sponge, coarse sprayer or by immersion. Surfaces must remain wet for at least 60 seconds and then followed by adequate draining and air drying. Do not rinse.

### POTABLE WATER TANK SANITIZER ABOARD AIRCRAFT, BOATS AND RECREATIONAL VEHICLES

Use **MB-10 Tablets**® to sanitize potable water tanks. Prior to sanitizing, empty potable water tank and fill with clean water. **Preparation of Use-Solution:** Prepare in well ventilated area. For every 30 gallons of tank capacity place 71 grams **MB-10 Tablets**® in a clean plastic pail and dissolve with one gallon of clean water. Wait 10 - 15 minutes for the **MB-10 Tablets**® to completely dissolve. Once added to tank this will yield a working solution of 50 ppm free chlorine dioxide. Add prepared use solution to tank and allow to soak at least 60 seconds. Empty tank and flush with clean water to rinse.

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV, HBV & HCV ON 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 soiled with blood or body fluids can be associated with the transmission of HIV-1, HBV and HCV. **MB-10 Tablets**® destroys HIV-1, HBV and HCV on pre-cleaned environmental surfaces/objects previously soiled with blood or other body fluids at 200 ppm and 1 minute contact (10 minutes for HBV and HCV).

**PERSONAL PROTECTION:** The worker should wear disposable latex gloves, gown, mask and eye protection to prevent contamination from soiled items.

**CLEANING PROCEDURE:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of **MB-10 Tablets**® solution.

**CONTACT TIME** Allow **MB-10 Tablets**® solution to contact treated items for 1 minute (10 minutes for HBV and HCV). A contact time of 1 minute will not control other common types of viruses and bacteria.

**DISPOSAL OF INFECTIOUS MATERIALS:** Any blood and other body fluids should be autoclaved and disposed of according to federal, state, and local regulations for infectious waste disposal.

#### **SURFACE STERILIZATION**

Use **MB-10 Tablets**® where sterility conditions are critical for optimum performance, such as manufacturing and laboratory equipment, and in areas where sterilization is required, such as Level 3 and 4 Biosafety Level (BSL-3 and BSL-4) facilities. Use **MB-10 Tablets**® on hard, non-porous surfaces such as plastics (polystyrene, polypropylene, polyvinyl chlorides, polyesters), stainless steel, sealed fiberglass, glazed ceramic, metal or glass. Do not use **MB-10 Tablets**® as a terminal high-level disinfectant or sterilant on any critical/semi-critical medical device or instrument. Prior to use, thoroughly pre-clean surface to be sterilized. This can be accomplished by rinsing with purified water, mechanical action or by detergent cleaning followed by a water rinse. Pre-cleaned surfaces may be allowed to air dry or may be towel dried but do not dry surfaces using dry heat. Prepare a 1000 ppm use-solution of chlorine dioxide by following the instructions under "Preparation of Use Solution" on this label. Apply the 1000 ppm chlorine dioxide use-solution by either thoroughly soaking the target surface or by immersion. All target surfaces must be exposed to treatment solution for at least 1 hour. Allow to air dry.

#### **SPECIAL INSTRUCTIONS FOR CLEANING AND DISINFECTING AREAS WHICH MAY BE INFESTED WITH HANTAVIRUS**

Infection with Hantavirus occurs by inhalation of infectious materials. Persons involved in the clean-up must wear coveralls (disposable, if possible), rubber boots or disposable shoe covers, rubber or plastic gloves, protective goggles, and an appropriate respiratory protection device, such as a half-mask air-purifying (or negative-pressure) respirator with a high-efficiency particulate air (HEPA) filter or a powered air-purifying respirator (PAPR) with HEPA filters.

All potential infective waste material (including respirator filters) from clean-up operations that cannot be burned or deep buried on site must be double bagged in appropriate plastic bags. The bagged material must then be labeled as infectious (if it is to be transported) and disposed of in accordance with local requirements for infectious waste.

Rodent droppings and visible dust may be reservoirs for Hantavirus. If you are cleaning out a building that has been closed up, such as a cabin, shed, or garage:

- A. Air out building for at least 30 minutes by opening windows and doors.
- B. Leave the building while it is airing out.
- C. Do not vacuum, sweep or dust. This may spread the virus through the air.
- D. Thoroughly wet the contaminated areas with **MB-10 Tablets**® and allow to stand undisturbed for 10 minutes.
- E. Carefully remove non-salvageable contaminated material and dispose by burial or burning. Contact your local and state health department for additional disposal methods.
- F. Treat the surface again following the label directions and allow to stand undisturbed for 10 minutes.

For additional guidance visit CDC website at [www.cdc.gov/hantavirus](http://www.cdc.gov/hantavirus).

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

**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 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 a 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.

Have the product container or label with you when calling poison control center or doctor, or going for treatment.

For emergency information on the product, use, etc., call the National Pesticides Information Hotline at 1-800-858-7378 or 1-800-222-1222.

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

## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

**DANGER. CORROSIVE.** Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through skin. Wear protective goggles or face shield. Wear coveralls, over long sleeve shirt and long pants, socks, chemical resistant footwear, and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, going to the bathroom. Remove contaminated clothing and wash before reuse. Harmful if inhaled. Avoid breathing dust or spray mist.

## **ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic organisms.

## **STORAGE AND DISPOSAL**

Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration and in an area inaccessible to children. Non-Refillable pouch. Do not reuse or refill this pouch. Offer for recycling, if available. If recycling is not available, place pouch in plastic bag and discard in trash.

A complete list of organisms and treatment conditions are shown in the table below.

<b>Viruses:</b>	<b>Use-Dilution (ppm)</b>	<b>Time (minutes)</b>
Minute Virus of Mouse (Parvovirus) (MVM-p)	100	10
Minute Virus of Mouse (Parvovirus) (MVM-l)	100	10
Mouse Hepatitis Virus (MHV-A59)	100	10
Mouse Hepatitis Virus (MHV-JHM)	100	10
Murine Parainfluenza Virus Type 1 (Sendai)	100	10
Sialodacryoadenitis Virus (Coronavirus) (SDAV)	100	10
Theiler's Mouse Encephalomyelitis Virus (TMEV)	100	10
Avian Influenza A (H3N2) virus	100	10
Canine Parvovirus	100	10
Feline Panleukopenia virus	200	5
Foot & Mouth Disease virus	100 or 200	30
Hantavirus	100	10
Hepatitis B Virus	200	10
Hepatitis C Virus	200	10
HIV	200	1
Human Coronavirus	200	10
Infectious bursal disease virus (IBDV)	100	10
Influenza A virus (Hong Kong)	100	10
Marek's disease virus (MDV)	100	10
Newcastle Disease virus	200	5
Norovirus	200	10
Porcine circovirus type 2	100	10
Transmissible Gastroenteritis	200	5
Porcine Respiratory and Reproductive Syndrome virus (PRRSV)	100	10
Psuedorabies	200	5
Swine Influenza A Virus	200	5
Vaccinia virus	100	10
<b>Bacteria (Disinfectant) :</b>		
<i>Bordetella bronchiseptica</i>	200	10
<i>Corynebacterium bovis</i>	100	10
<i>Enterococcus faecalis</i> Vancomycin Resistant	200	5
<i>Escherichia coli</i> O157:H7	200	10
<i>Helicobacter pylori</i>	100	10
<i>Mycobacterium bovis</i>	200	5
<i>Pseudomonas aeruginosa</i>	200	10
<i>Salmonella enterica</i>	200	10
<i>Staphylococcus aureus</i>	200	10
<i>Staphylococcus aureus (MRSA)</i>	100 or 200	10
<i>Staphylococcus aureus</i> Methicillin Resistant	200	5
<b>Bacteria (Sanitizer):</b>		
<i>Salmonella enterica</i>	25	1
<i>Listeria Monocytogenes</i>	25	1