

# BINARY IONIZATION TECHNOLOGY® (BIT™) SOLUTION

## For use as a Hospital-HealthCare and Effective Broad-Spectrum Surface Disinfectant/Decontaminant

EPA Reg. No. 90150-2 | EPA Est. No. 72038-DE-001

A powerful technology in fighting and reducing the spread of bacteria<sup>1,3</sup> on treated surfaces. No wipe, no rinse, leaves no residues. SteraMist™ Environment System kills 99.9999% of *Clostridium difficile* spores<sup>3</sup>, makes whole room disinfecting easier. Patented formula kills the bacterial cellular wall destroying the bacteria<sup>1,3</sup>. Reaches surfaces that regular disinfectants/decontaminants can't. H<sub>2</sub>O<sub>2</sub> converted by plasma science.

#### SteraMist™ Surface Unit:

##### Bactericide<sup>1</sup>

<sup>1</sup>*Staphylococcus aureus* (Staphylococcus) (Staph) (ATCC # 6538),

*Pseudomonas aeruginosa* (Pseudomonas) (ATCC # 15442),

Methicillin Resistant *Staphylococcus aureus* (MRSA) (ATCC #33592),

and *Salmonella enterica* (Salmonella) (ATCC #10708)

##### Virucide<sup>2</sup>

<sup>2</sup>Influenza A (H1N1) virus (ATCC VR-1469)

For use in mold and mildew control and remediation for aesthetic purposes only

#### SteraMist™ Environment System:

##### Bactericide<sup>3</sup>

<sup>3</sup>*Staphylococcus aureus* (Staphylococcus) (Staph) (ATCC # 6538),

*Pseudomonas aeruginosa* (Pseudomonas) (ATCC # 15442),

*Salmonella enterica* (Salmonella) (ATCC # 10708)

and *Clostridium difficile* spores (*C. difficile*) (ATCC # 43598)

##### Virucide<sup>4</sup>

<sup>4</sup>Norovirus (Feline Calicivirus) (FCV) (ATCC # VR-782)

Full efficacy with SteraMist™ equipment can only be achieved by using SteraMist™ BIT™ Solution

#### MANUFACTURED FOR:

TOMI™ Environmental Solutions, Inc. | 5111 Pegasus Court, Suite A  
Frederick, MD 21704 | 800.525.1698

NET CONTENTS: 1 gallon / 3.79 liters

See back for Lot No./ Data Code, Product No., Expiration Date

Binary Ionization Technology® (BIT™) is a licensed trademark of  
TOMI™ Environmental Solutions, Inc. USA

Patented iHP (Ionized Hydrogen Peroxide) Technology

**TOMI**  
ENVIRONMENTAL SOLUTIONS

Contact TOMI™ at: +1.800.525.1698

#### Active Ingredient:

Hydrogen Peroxide .....7.8%

Inert Ingredients .....92.2%

Total ..... 100.0%

KEEP OUT OF REACH OF CHILDREN

# DANGER PELIGRO

### FIRST AID

- |             |   |
|-------------|---|
| If in eyes: | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a Poison Control Center or doctor for treatment advice.</li></ul> |
| If on skin: | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a Poison Control Center or doctor for treatment advice.</li></ul>   |

Have the product container or label with you when calling a Poison Control Center, or doctor, or going for treatment.

For general information on product use, etc., call the National Pesticides Information Center at 1-800-858-7378. For emergencies, call the Poison Control Center (1-800-222-1222).

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

**HEALTHCARE USE SITES:**

Binary Ionization Technology® (BIT™) Solution is designed specifically as a hospital-healthcare ready-to-use disinfectant/decontaminant fogging/aerosolized spray product for use in the following settings:

**INCLUDING BUT NOT LIMITED TO:**

Ambulatory Surgical Centers (ASC)

Anesthesia Rooms or Areas

Assisted Living or Full Care Nursing Homes

CAT Laboratories

Central Service Areas

Central Supply Rooms or Areas

Critical Care Units or CCUs

Dental Operatories

Dentist office

Elevators

Examination Room(s)

Dialysis Clinics (Facilities)

Donation Centers (blood/plasma/semen/milk/apheresis)

Emergency Rooms or ERs

Eye Surgical Centers

Health Care Settings or Facilities

Hospital Kitchens (non-food contact surfaces)

Hospices

Intensive Care Units (ICUs)

Isolation Areas

Laundry Rooms

Laboratories

Long Term Care Facilities

Medical Facilities

Newborn or Neonatal Units/Intensive Care Units

(NICU) Nursing or Nursing Stations

Operating Rooms or ORs

Ophthalmic Offices

Orthopedics

Out Patient Surgical Centers/Clinics (OPSC)

Patient Areas

Patient Restrooms

Pediatric Examination Rooms or Areas

Pediatric Intensive Care Units (PICU)

Pharmacies

Physical Therapy Rooms or Areas

Psychiatric Facilities

Public Care Areas

Radiology or X-Ray Rooms or Areas

Recovery Rooms

Rehabilitation Centers

Respiratory Therapy Rooms or Areas

Restrooms

Surgery Rooms or Operating Rooms or ORs

Waiting Rooms or Areas

## **OTHER USE SITES:**

Animal Industry, Bio-Safety labs, Biotech Industry, Commercial, Education, Entertainment, Government, Historic Buildings, Homeland Defense, Hospitality, Industrial, Institutional, Multi-family housing, Military, Pharmaceutical, Recreational, Entertainment and Residential Settings and Assets, Senior Living, Tissue banks, Transportation (public and private), Worship Facilities.

Specific Areas of use include; Airplane, **Ambulance<sup>†</sup>**, **Automobile<sup>†</sup>**, Barrier isolator, Biological Decontamination Chamber, Biological Safety Cabinet, Blood Bank, Boat, Bowling Alley, Bus, Cargo Planes, Campground Facility, Church (Temple/Mosque/House of worship), Clean Room (Electronic/Pharmaceutical/Tissue Bank), Clinic (Medical), College or University Facility, Commercial Building, Correctional Facility, Cruise Ship, Day Care Center, Dorm, Factory, Fire House, Gymnasium, Health Club (Spa), Home, Hospital, Hotel, Industrial Facility, Infirmary, Institutional Facility, Laundromat, Locker Room, Manufacturing Plant (non-food), Massage Therapy Facility, Military (Installation/Vessel/Aircraft/**Vehicle<sup>†</sup>**/Asset), Mobile Home, Motel, Nursing Home, Office (Medical/Dental/Physician's/Commercial/Correctional/Sheriff), Pharmaceutical Test and Manufacturing Facility, Pharmacy, Indoor Playground, Police Department, Public Facilities, Public Restroom, Recreational Center, Rental Facility, Residential Facility, Retail Facility, Recreational Vehicle, School Bus, Schools, Shelter, Sports Arena, Submarine, Theaters, Tissue Bank, Train, Veterinary Clinic, Vivarium, and Warehouse. **†Only for application with the SteraMist™ Surface Unit.**

## **FOOD HANDLING USE SITES (INCLUDES STORAGE, PREPARATION, PROCESSING, AND SERVING):**

Food Manufacturing Plant, Food Handling Establishments, Food Warehouses, Cafeteria, Farmer's Market, Food Service Establishment, Food Processing, Packing Plants, Restaurant, Fast Food Restaurant, Supermarket or Grocery Store

## **FOOD AREAS:**

In establishments where food and food products are held, prepared, processed and served, application may be made only when the facility is not in operation provided exposed food is covered or removed from the area being treated prior to application. Food contact surfaces must be rinsed with potable water after use of the product. Food areas include areas for receiving, storage, packing (canning/bottling/wrapping/boxing), preparing, edible waste storage, enclosed processing systems (mills/dairies/edible oils/syrups), serving areas (where prepared foods are served, such as dining rooms).

## **NON-FOOD AREAS:**

This product may be used to treat nonfood areas in food handling use sites. Nonfood areas include garbage rooms, lavatories, entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**DANGER:** Liquid causes irreversible eye damage. Harmful if absorbed through skin. Do not get in eyes, or on clothing. Avoid contact with skin. Wear appropriate protective eye wear such as goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

For applicators and handlers of the SteraMist™ Surface Unit Hand Held application equipment and for early re-entry for the SteraMist™ Environment System, the following PPE must be worn:

- Protective eye wear such as goggles or face shield, or safety glasses
- R95 or N95 Respirator with Activated Charcoal Filter, Powered Air Purifying Respirator with organic vapor filter, or equivalent
- Gloves, long sleeves, and long pants.

Final selection of additional PPE must be done in accordance with hospital/site guidelines and take into consideration the use of the product as well as any infection or exposure hazards related to the environment to be disinfected.

### PHYSICAL AND CHEMICAL HAZARDS

This product is incompatible with strong oxidizing and reducing agents.

### Directions for Use

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

Shade from radiant heat and direct sunlight. Stow away from powdered metals and permanganates. This product is for use in SteraMist™ application equipment only, including SteraMist™ Environment System or SteraMist™ Surface Unit, and by personnel trained by IOMI™ Environmental Solutions, Inc. Read and follow the Binary Ionization Technology® (BIT™) Solution label, package insert, and user manual(s) for complete directions on pre-cleaning, sealing and use of Binary Ionization Technology® (BIT™) Solution in monitored and non-monitored applications. Use SteraMist™ Surface Unit Solution only for Manual and for operating procedures of the SteraMist™ Environment System or SteraMist™ Surface Unit application equipment. Do not use this product without development of an appropriate fogging/disinfectant plan as described in detail in the attached package insert. Do not deviate from standard cleaning procedures when using SteraMist™ application equipment. Binary Ionization Technology® (BIT™) Solution fogging/aerosolized spray is designed to be the final step in standard cleaning procedures. Not for use as a terminal sterilant or high-level disinfectant for reprocessing of critical or semi-critical medical devices.

### Microbial Disinfection

For use as a microbial disinfectant fogging/aerosolized spray solution for disinfection of all dry, pre-cleaned, hard, non-porous, non-food contact surfaces in spaces and rooms. Do not deviate from standard cleaning protocols when using Binary Ionization Technology® (BIT™) Solution. Use product only with SteraMist™ application equipment such as SteraMist™ Environment System or SteraMist™ Surface Unit equipment following detailed instructions provided in the SteraMist™ Binary Ionization Technology® (BIT™) User Manual. Read and follow the directions in the attached package insert on room preparation, room set-up, treatment procedures, and equipment operating procedures for the specific SteraMist™ Environment System fogging/misting machine or SteraMist™ Surface Unit aerosolized spray application equipment. Binary Ionization Technology® (BIT™) Solution should be used as part of a Hospital Disinfectant Plan. For complete guidelines on developing a Hospital Disinfectant Plan/General Disinfectant Plan/Mold Remediation Plan, refer to the package insert or equipment User Manual. The SteraMist™ Surface Unit should be used when disinfecting specific objects and/or selected surfaces with a directed, aerosolized spray from a distance of no more than 20-24 inches from the target surface. The SteraMist™ Environment System should be used when the whole room needs to be disinfected.

### SteraMist™ Surface Unit Hand Held Aerosolized Spray Application Directions:

Use the SteraMist™ Surface Unit exclusively in conjunction with the Binary Ionization Technology® (BIT™) Solution. For use in pre-cleaned enclosures and on pre-cleaned equipment. Remove any visible gross filth from surfaces and objects before application. The product must be used as packaged and not diluted in any way. To be used only on hard, non-porous surfaces.

For use on surfaces in industrial, commercial, and institutional settings (see label for list of specific Healthcare Use Sites and Other Use Sites lists). Apply at a maximum distance of 20-24 inches for a minimum of 5 seconds over a contiguous 1 square foot treatment area. Allow a minimum contact time of 7 minutes for the surface to dry. Refer to the attached Binary Ionization Technology® (BIT™) Solution package insert for complete application instructions.

### SteraMist™ Environment System Room Fogging/Misting Directions:

Use the SteraMist™ Environment System exclusively with Binary Ionization Technology® (BIT™) Solution. For use in pre-cleaned enclosures and on pre-cleaned equipment. Remove any visible gross filth from surfaces and equipment before application. The product must be used as packaged and not diluted in any way. To be used only on hard, non-porous surfaces.

For use in sealed rooms in industrial, commercial, and institutional settings (see label for list of specific Healthcare Use Sites and Other Use Sites lists). The use rate to achieve a minimum airborne concentration of 150 ppm (parts per million) hydrogen peroxide is approximately 0.5 milliliters (ml) of product per cubic foot (ft³) of enclosure/room volume. The application time needed to achieve the required concentration will vary depending upon the room size. Once the 150 ppm dose concentration is achieved, contact time must be maintained for a minimum of 15 minutes before initiating aeration of the room. Treatment area must remain unoccupied until a Drager, PortaSens or other monitoring device registers hydrogen peroxide levels <0.2 ppm. Refer to the attached Binary Ionization Technology® (BIT™) Solution package insert for complete application instructions.

### Special Label Instructions for Cleaning Prior to Disinfection against *Clostridium difficile* spores

- Personal Protection: Refer to label PPE requirements.
- Cleaning Procedure: Fecal matter/waste must be thoroughly cleaned from surfaces/objects before disinfection, by application with a clean cloth, mop, and/or sponge saturated with an EPA-registered sporicidal product. Cleaning is to include vigorous wiping and/or scrubbing, until all visible soil is removed. Special attention is needed for high-touch surfaces.
- Infectious Materials Disposal: Materials used in the cleaning process that may contain feces/wastes are to be disposed of immediately in accordance with local regulations for infectious materials disposal.

### For Mold Control and Mold Inhibition

Use only with SteraMist™ Surface Unit hand-held aerosolized spray application equipment. For use as a mold control and mold inhibitor during remediation of sealed, dry pre-cleaned hard non-porous surfaces located in industrial, commercial and institutional settings, including production operations in pharmaceutical manufacturing such as clean rooms, laboratories, animal research facilities, hotel rooms, offices, cruise ships, and recreational facilities. See above for list of specific Healthcare Use Sites and Other Use Sites lists. This product is not intended for use on or to control mold on textiles or hard porous surfaces. This product is used to treat wood, wallboard, concrete, and masonry (cinder) block building materials which have been painted, coated or sealed. This product is intended to control and inhibit mold and mildew for aesthetic purposes only. Before applying this product, visible mold growth must be removed, and conditions favorable to mold growth must be identified and corrected.

### Remedial Mold Treatment

This product must be used as part of a comprehensive mold remediation or water damage restoration program, including:

- Periodic monitoring and inspection of conditions favorable to mold growth such as moisture ingress and high relative humidity
- Effecting repairs as necessary to eliminate conditions favorable to mold growth
- Drying of affected surfaces to below 20% moisture content

For use on pre-cleaned hard non-porous surfaces. Apply at a maximum distance of 18 inches for a minimum of 30 seconds over a 1 square foot treatment area. Allow a minimum contact time of 5 minutes. The product to be used as packaged and is not to be diluted in any way. Refer to the Binary Ionization Technology® (BIT™) Solution package insert or equipment User Manual for complete application instructions.

**STORAGE AND DISPOSAL:** Do not contaminate water, food, or feed by storage and disposal.

**Pesticide Storage:** Keep out of direct sunlight and away from heat. Do not freeze. Store in original closed dark plastic container in cool, dry area, at average/normal room temperature, away from small children and pets.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Non-refillable container. Do not reuse or refill this container. Clean container promptly after employing. Offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration. If product is leaking or spills should occur, please dilute with water and dry with absorbent material, or dilute with water as it is flushed into waste water drain.

Product #: BIT 400

Lot/Data Code#:

Expiration:

Questions? Comments? Please Call 1.800.525.1698

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