



Artemis Bio-64C-Master Label

- Use in federally inspected Meat & Poultry Plants as a food contact sanitizer and / or disinfectant. This product was authorized by USDA as category D2 under the prior authorization program and its formula has not been changed – a sanitizer for all surfaces not always requiring a rinse.
- as a disinfectant on hard, nonporous surfaces.
- in kitchens, bathrooms and other household areas.
- to clean and disinfect finished floors, sinks and tubs.
- with a mop and bucket, trigger sprayer, sponge or by soaking.
- for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures and toilet bowls.
- to clean and disinfect nonporous salon / barber tools and instruments: combs, brushes, scissors, blades and manicure instruments.
- for sanitizing and disinfecting of ultrasound transducers, probes, mammography compressor plates and other hard nonporous surfaces.
- to clean and disinfect finished floors. Must be applied with damp mop or autoscrubber. Cleans and disinfects without dulling gloss.
- on coils and drain pans of air conditioning and refrigeration equipment and heat pumps. Follow the directions for sanitization of non-food contact surfaces.
- To clean and disinfect nonporous fire fighting bunker / turnout gear; trousers; overcoats, gloves, boots, hoods, helmets, air masks.
- [on] [to clean and disinfect] [to clean and sanitize] nonporous personal protective safety equipment, wrestling headgear, boxing headgear, protective headgear, athletic helmets, hard hats, half mask respirators, full face breathing apparatus, gas masks, goggles, spectacles, face shields, hearing protectors, and ear muffs. Rinse all equipment that comes in prolonged contact with skin with clean warm water [about 120°F], and allow to air dry before reuse. [Precaution: Cleaning at 120°F temperature will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.]
- [on] [to clean and disinfect] nonporous athletic mats, wrestling mats, gymnastic mats, exercise equipment and training tables.
- for Poultry Premise Sanitation [Hatcheries]: Egg Receiving Area, Egg Holding Area; Setter Room, Tray Dumping Area, Trays, Buggies, Racks, Egg Flats, Chick Holding Room, Hatchery Room, Chick Processing Area, Chick Loading Area, Poultry Buildings, Ceilings, Sidewalls and Floors, Drinkers and other Poultry House related equipment, and all other hard, nonporous surfaces in the Hatchery environment.
- for Swine Premise Sanitation: Waterers and Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns and areas, Nursery blocks, Creep area, Chutes.
- for Farm Premise Sanitation of hard nonporous surfaces: floors, walls, feed racks, mangers, troughs, automatic feeders, fountains and waterers, forks, shovels, scrapers and other nonporous surfaces in barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals.
- in the laundry to control odors on musty bedding and linens. Test on a small inconspicuous area before using.
- in mildew stains in damp areas such as bathrooms, showers, kitchens, basements and laundry rooms.
- in work areas such as tool rooms and garages for odor control and light duty cleaning.
- to remove odors caused by flooding and smoke from fires.
- to clean and sanitize tables, chairs, and countertops
- as a [commercial] sanitizer on dishes, glassware, and utensils.
- as a sanitizer in bottling and beverage dispensing equipment.
- as a sanitizer in sanitary filling of bottles and cans.
- in sanitizing bottles or cans in the final rinse application, and for external spraying of filler and closing machines.
- as a sanitizer in beer fermentation and holding tanks.
- as a Food-Grade Shell Egg sanitizer, with best results achieved in water temperatures ranging from 78°-110° F. **Artemis Bio-64C** may be applied through, immersion tanks, foaming apparatus and low- pressure sprayers.

Cross-contamination is of major housekeeping concern. **Artemis Bio-64C** has been formulated to aid in the reduction of cross-contamination on treated surfaces not only in hospitals, but in schools, institutions and industry.



Artemis Bio-64C is a phosphate free, germicidal detergent effective in the presence of a moderate amount of organic soil on hard nonporous surfaces found at mushroom farms. **Artemis Bio-64C** has been designed for use between mushroom crops. Areas of intended use include breezeways and track alleys before spawning, inside and outside walls of mushroom houses, lofts, floors, storage sheds and casing rings. Use of **Artemis Bio-64C** must be limited to areas where compost and mushrooms are not present.

Artemis Bio-64C is effective at eliminating odors on porous surfaces such as upholstery, drapes, carpets, bedding, shower curtains, mattresses and non-porous surfaces such as walls and floors. Excellent for fire restoration.

Other suggested Uses: Homes, Veterinary Clinics, Fish Markets, Kennels, Trash Compactors, Offices, Beauty Salons, Locker Rooms, Health Spas, Conference rooms, Elevators, Smoking Areas, Lounges, Day Care Centers, Dry Cleaners, Theaters, Farms, Auditoriums and Churches.

Artemis Bio-64C is a sanitizer for hard nonporous non-food contact surfaces according to the method for Sanitizers - Non-Food Contact Surfaces, modified in the presence of 500 ppm hard water plus 5% organic serum in 60 seconds against:

Klebsiella pneumoniae Staphylococcus aureus

Regular, effective cleaning and sanitizing of equipment, utensils, and work or dining surfaces which could harbor food poisoning microorganisms minimizes the probability of contaminating food during preparation, storage or service. Effective cleaning will remove soil and prevent the accumulation of food residues, which may decompose or support the rapid development of food poisoning organisms or toxins. Application of effective sanitizing procedures reduces the number of those organisms present on equipment and utensils after cleaning, and reduces the potential for the transfer, either directly through tableware such as glasses, cups and flatware or indirectly through food.

To prevent cross-contamination, kitchenware and food-contact surfaces of equipment must be washed, rinsed with potable water and sanitized after each use and following any interruption of operation during which time contamination may have occurred.

Where equipment and utensils are used for the preparation of foods on a continuous or production-line basis, utensils and the food-contact surfaces of equipment must be washed, rinsed with potable water and sanitized at intervals throughout the day on a schedule based on food temperature, type of food, and amount of food particle accumulation.

Articles that can be immersed in solution must remain in solution for 60 seconds. Articles or surfaces too large for immersing must be thoroughly wetted or flooded by rinsing, spraying or swabbing. Allow all sanitized surfaces to drain thoroughly [and air dry].

Artemis Bio-64C fulfills the criteria of Appendix F of the Grade "A" Pasteurized Milk Ordinance Recommendations of the U.S. Public Health Services in waters up to 500 ppm of hardness calculated as CaCO_3 when evaluated by the AOAC Germicidal and Detergent Sanitizer Method.



[AREAS OF USE:]

Use **Artemis Bio-64C** in:

Bathrooms

Homes [Households]

Kitchens

Clinics

Dental offices

Health Care Facilities

Hospitals

Medical Offices

Medical Related facilities

Nursing homes

Sick Rooms

Day care centers

Nurseries

Bars

Cafeterias

Convenience stores

Food Preparation Areas

Food processing plants

Food storage areas

Institutional kitchens

Restaurants [Front of House]

USDA inspected food processing facilities

Athletic facilities

Barber shops

Business and office buildings

Colleges

Correctional facilities

Dressing rooms

Exercise facilities

Factories

Hotels

Institutional facilities

Institutions

Locker rooms

Motels

Prisons

Public facilities

Public rest rooms,

Schools

Shower and bath areas

Salons [Beauty] [Tanning]

Universities

Camp grounds

Play ground equipment

Animal laboratories

Dairy farms

Farms

Hog farms

Kennels

Mushroom Farms

Poultry farms

Pet animal quarters

Pet shops

Turkey farms

Zoos

Airplanes

Airports

Ambulances

Boats

Buses

Campers

Cars

Emergency [Police] [EMS] [Fire] [Rescue] vehicles

Mobile homes

Ships

Taxis

Trailers

Trains

Transportation terminals



[TYPES OF SURFACES:]

Use **Artemis Bio-64C** on washable hard, nonporous surfaces of:

Appliances, exteriors
Bathroom fixtures
Bathtubs [fiberglass]
Cabinets
Cages
Chairs
Coils and drain pans of air conditioning and refrigeration equipment and heat pumps
Conductive flooring
Counters [Countertops]
Countertop laminates
Desks
Doorknobs
Floors
Foot Spas
Garbage cans
Highchairs
Kennel runs
Microwave ovens, exteriors
Outdoor [patio] furniture except cushions and wood frames
Refrigerators, exteriors
Refrigerated storage and display equipment
Showers
Shower stalls
[Fiberglass] Shower stalls
[Fiberglass] Sinks [bathroom] [kitchen]
Sinks [bathroom] [kitchen]
Stoves [stovetops]
Tables, [Non-wooden picnic tables]
Telephones
Toilets
Toilet bowls
Toilet bowl surfaces
Tubs [Fiberglass]
Tiles, glazed
Ultrasonic baths
Urinals
Walls
Whirlpool [bathtubs] [tubs] [units]

Beer fermentation and holding tanks
Beverage dispensing equipment
Blenders
Bottling or premix dispensing equipment
Chopping blocks, plastic and other nonporous
Cooking utensils

Coolers
Cutlery
Cutting Boards, plastic and other nonporous
Dishes
Eating Utensils
Food processors
Food dispensing equipment
Frozen Drink Machines
Glassware
Ice Chests
Ice Machines
Ice cream dispensing equipment [Soft Serve]
Plastic Food Storage Containers
Kitchen equipment
Refrigerator bins used for meat, fruit, vegetables and eggs
Silverware

Non-critical [hospital] [medical] equipment surfaces:

Beds [Medical] [Hospital]
Bed frames
Bed rails
Crutches
Defibrillators
Gurneys
[Medical] Examining tables
[Medical] [Hospital] Lamps
Rescue tools
Resuscitators
[Medical] [Hospital] Scales
Stands
Stretchers
Stethoscopes
Walkers
Wheel chairs

Other hard nonporous surfaces made of:

Glazed ceramic
Glazed enameled surfaces
Glazed porcelain
Laminated surfaces
Metal
Plastic [such as polystyrene or polypropylene]
Sealed stone
Stainless steel
Upholstery, vinyl and plastic
Woodwork, finished



Soft (household) surfaces

Upholstery

Fabric

(upholstered) Couches(es), Sofa(es) Chair(s), seat cushion(s)

(upholstered) cushions(s), pillow(s)

(upholstered) furniture

(fabric) Window treatment(s), Curtain(s), Draperies, Shower curtain(s)

(fabric) (Gym) (Laundry) (diaper) Bags, back pack(s)

(Fabric) Hamper(s)

(Fabric) (Dog) (Pet) Bedding, Blankets

(fabric) (upholstered) (car) seat(s)

(fabric) stuffed animal(s), toy(s)



Artemis Bio-64C is an effective sanitizer for use on pre-cleaned food contact surfaces at 150 – 200 ppm in waters up to 500 ppm hardness in 60 seconds against:

Campylobacter jejuni
Escherichia coli
Staphylococcus aureus

Artemis Bio-64C is an effective sanitizer for use on pre-cleaned food contact surfaces at 200 - 300 ppm in waters up to 500 ppm hardness in 60 seconds against:

Campylobacter jejuni
Escherichia coli
ESBL Escherichia coli – [Extended spectrum beta-lactamase producing E. coli]
Shigella sonneii
Staphylococcus aureus
Vibrio cholerae
Yersinia enterocolitica

Artemis Bio-64C is an effective sanitizer for use on pre-cleaned food contact surfaces at 300 - 400 ppm in waters up to 500 ppm hardness in 60 seconds against:

Campylobacter jejuni
Escherichia coli
ESBL Escherichia coli – [Extended spectrum beta-lactamase producing E. coli]
Salmonella enterica
Shigella sonneii
Staphylococcus aureus
Vibrio cholerae
Yersinia enterocolitica



Artemis Bio-64C is a [one-step] [Hospital use] disinfectant, Bactericidal according to the current AOAC Use-Dilution Test Method, Fungicidal according to the AOAC Fungicidal Test and Virucidal* according to the virucidal qualification modified in the presence of 200 ppm hard water plus 5% organic serum against:
{or}

As a disinfectant, **Artemis Bio-64C** [kills] [is effective against]:

[Bacteria:]

Pseudomonas aeruginosa [*Pseudomonas*]

Staphylococcus aureus [*Staph*]

Salmonella enterica [*Salmonella*]

Acinetobacter baumannii [*Acinetobacter*]

Burkholderia cepacia

Campylobacter jejuni [*Campylobacter*]

Corynebacterium ammoniagenes

Enterobacter aerogenes

Enterobacter cloacae NDM-1

Enterococcus faecalis [*Enterococcus*]

Enterococcus faecalis - Vancomycin resistant [VRE]

Escherichia coli [*E. coli*]

Escherichia coli, New Delhi Metallo-Beta Lactamase (NDM-1)

ESBL *Escherichia coli* – [Extended spectrum beta-lactamase producing *E. coli*]

Klebsiella pneumoniae [*Klebsiella*]

Klebsiella pneumoniae – NDM-1 positive

Legionella pneumophila

Listeria monocytogenes [*Listeria*]

Salmonella schottmuelleri [*Salmonella*]

Salmonella typhi [*Salmonella*]

Serratia marcescens

Shigella dysenteriae [*Shigella*]

Staphylococcus aureus - Community Associated Methicillin-Resistant [CA-MRSA] [NRS384] [USA300]

Staphylococcus aureus - Community Associated Methicillin-Resistant [CA-MRSA] [NRS123] [USA400]

Staphylococcus aureus - Methicillin-Resistant [MRSA]

Staphylococcus aureus - Multi-Drug Resistant [resistant to tetracycline [Tc], penicillin [Pc], streptomycin [Sm] and erythromycin [Em] and susceptible to chloramphenicol [Cm] *in vitro*]

Staphylococcus aureus - Vancomycin Intermediate Resistant – [VISA]

Streptococcus pyogenes [*Strep*] [a cause of scarlet fever]

Vibrio cholerae

[Viruses:]

*Adenovirus Type 5 [*Adenovirus*]

*Adenovirus Type 7 [*Adenovirus*]

*Hepatitis B Virus [HBV]

*Hepatitis C Virus [HCV]

*Herpes Simplex Virus Type 1 [Herpes]

*Herpes Simplex Virus Type 2 [Herpes]

*HIV-1 [the AIDS Virus]

*Human Coronavirus

*Influenza Virus Type A / Brazil [Influenza]

*Influenza Virus Type A / Hong Kong [Influenza]

*2013 Influenza A Virus (H7N9)

*Norwalk Virus [Norovirus]

*Respiratory Syncytial Virus [RSV]

*Rotavirus

*SARS Associated Coronavirus [SARS] [cause of Severe Acute Respiratory Syndrome]

*Vaccinia [Pox Virus]



the following are non-enveloped viruses :}

- *Adenovirus Type 5
- *Adenovirus Type 7
- *Norwalk Virus [Feline Calicivirus] [Norovirus]
- *Rotavirus

- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. This product [*Product Name*] is a broad-spectrum hard surface disinfectant that has been shown to be effective against (*influenza A virus tested and listed on the label*) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.
- This product has demonstrated effectiveness against (*influenza A virus tested and listed on the label*) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus.

Artemis Bio-64C [kills] [is effective against] [the following animal viruses]: Avian

Infectious Bronchitis Virus
Avian Influenza virus (H3N2)
Avian Influenza virus (H5N1)
Canine distemper virus
Feline calicivirus
Feline Pankleukopenia Virus
Murine Norovirus¹
Newcastle's Disease virus
Pseudorabies virus

[Fungi:]

Aspergillus niger
Aspergillus fumigatus

Trichophyton mentagrophytes [the Athlete's Foot Fungus] [A cause of Ringworm][A cause of Ringworm of the foot]

¹Tested in deionized water



Dilution:

Disinfection [1:64]	2 oz. per gallon of water
Disinfection [1:32]	4 oz. per gallon of water
Disinfection [1:16]	8 oz. per gallon of water
Sanitizer [1:128].....	4 oz. per 4 gallons of water
.....	[2 oz. per 2 gallons of water]
.....	[1 oz. per gallon of water]
.....	[400 ppm active]
Sanitizer [1:171].....	3 oz. per 4 gallons of water
.....	[1 oz. per 1 1/3 gallons of water]
.....	[3/4 oz. per gallon of water]
.....	[300 ppm active]
Sanitizer [1:256].....	2 oz. per 4 gallons of water
.....	[1 oz. per 2 gallons of water]
.....	[1/2 oz. per gallon of water]
.....	[200 ppm active]
Sanitizer [1:352].....	2 oz. per 5 1/2 gallons of water
.....	[1 oz. per 2 3/4 gallons of water]
.....	[3/8 oz. per gallon of water]
.....	[150 ppm active]

*{If the following Spanish statement is used, it must appear directly above DIRECTIONS FOR USE.}
 Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. [If you do not understand the label, find someone to explain it to you in detail.]*

DIRECTIONS FOR USE

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

Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected.

Preparation of Disinfectant Use-Solution:

Add [mix] 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] per gallon of water [1:64].
 For heavy duty use, add [mix] 8 oz. per gallon of water [1:16].
 Use 8 oz. per gallon of water to kill Adenovirus Type 5 and Type 7.

DISINFECTION / VIRUCIDAL* / FUNGICIDAL / MOLD AND MILDEW CONTROL DIRECTIONS:

Apply use-solution to hard, nonporous surfaces, thoroughly wetting the surfaces, with a cloth, mop, sponge, sprayer or by immersion. Treated surfaces must remain wet for 10 minutes. *{Note to reviewer: if using reduced contact time for Influenza Virus Type A and/or Human Coronavirus, the following sentence will be required.}*
[For [Influenza Virus Type A] [and] [Human Coronavirus], treated surfaces must remain wet for 1 minute.]
 Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications, use a coarse spray device. Spray 6 - 8 inches from surface; rub with brush, sponge or cloth. Avoid breathing spray.

For fungicidal activity, Artemis Bio-64C is an effective fungicide against *Trichophyton mentagrophytes* [the athlete's foot fungus] in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities. Dilute at 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] per gallon of water and allow surface to remain wet for 10 minutes.

Artemis Bio-64C is a one-step fungicide at 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] per gallon in 200 ppm hardwater and 5% serum.

For mold and mildew At 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] per gallon, **Artemis Bio-64C** will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, nonporous surfaces. Follow disinfection instructions. Repeat treatment every seven days, or more often if new growth appears.



Rinse all surfaces that come in contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes as a disinfectant.

BACTERICIDAL STABILITY OF USE-DILUTION: Tests confirm that **Artemis Bio-64C** when diluted in [water up to 200 ppm of hardness] [soft water] [via use of automatic dispensing devices], remains effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Salmonella enterica* for [up to 7 days] [[up to one week] [for up to one month] [up to 2 months] [up to 3 months] [to 4 months] [to 5 months] [up to 6 months] [up to 7 months] [up to 8 months] [up to 9 months] [up to 10 months] [up to 11 months] [up to 12 months] [up to one year] [up to two years] when stored in a sealed container such as a spray bottle. If product becomes visibly dirty or contaminated, the use-dilution must be discarded and fresh product prepared. Always use clean, properly labeled containers when diluting this product. Bactericidal stability of the use-dilution does not apply to open containers such as buckets or pails.

{or}

Prepare a fresh solution daily or more often if the solution becomes visibly dirty or diluted.

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.]

{or}

This product is not for use on medical device surfaces.

***KILLS HIV AND HBV AND HCV ON PRE-CLEANED 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 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 1 [HIV-1] [associated with AIDS] or Hepatitis B Virus [HBV] or Hepatitis C Virus [HCV].

Special Instructions for Cleaning and Decontamination against HIV-1 or HBV or HCV on Surfaces / Objects Soiled With Blood / Body Fluids.

Personal Protection: Clean up must always be done wearing protective gloves, gowns, masks and eye protection.

Cleaning Procedure: Blood and other body fluids containing HIV-1 or HBV or HCV must be thoroughly cleaned from surfaces and objects before application of **Artemis Bio-64C**.

Contact Time: Leave surface wet for 1 minute [60 seconds] for HIV-1 and 10 minutes for HBV and HCV with a 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] per gallon use-solution. Use 8 oz. per gallon of water to kill Adenovirus Type 5 and type 7. Use a 10-minute contact time for disinfection against all other viruses, bacteria and fungi claimed.

Disposal of Infectious Material: Blood, body fluids, cleaning materials and clothing must be autoclaved and disposed of according to local regulations for infectious waste disposal.

NON-ACID TOILET BOWL [AND] [URINAL] DISINFECTANT / CLEANER DIRECTIONS:

Remove gross filth prior to disinfection.

From Concentrate:

Add 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] to the bowl. Thoroughly brush or swab over exposed surfaces and under the rim with a cloth, mop or sponge. Allow to stand for 10 minutes and flush.

From Use Solution:

Empty toilet bowl [or] [urinal] and apply a 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] per gallon use-solution to exposed surfaces and under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly, allow to stand for 10 minutes and flush.



For Heavy Duty Use:

Empty toilet bowl [or] [urinal] and apply an 8 oz. per gallon use-solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly, allow to stand for 10 minutes and flush.

SALON / BARBER INSTRUMENTS AND TOOLS DISINFECTION [BACTERICIDE] / VIRUCIDE / FUNGICIDE DIRECTIONS:

Mix 4 oz. [120 mL] or [4 - 8 oz. [120 -240 ml] of **Artemis Bio-64C** per gallon of water [1 oz. [30 mL] or [1 –2 oz. [30 – 60 ml]] of **Artemis Bio-64C** per quart of water] to disinfect hard, nonporous instruments and tools. Completely immerse combs, brushes, razors, scissors, blades, plastic rollers, manicure and other salon instruments and tools for 10 minutes. Use 8 oz. per gallon of water to kill Adenovirus Type 5 and type 7. For heavily soiled instruments and tools, a preliminary cleaning is required. Rinse thoroughly and dry before use. Fresh solution must be prepared daily or more often if solution becomes diluted or soiled.

Note: Plastics may remain immersed until ready to use. Stainless steel shears and instruments must be removed after 10 minutes, rinsed, dried and kept in a clean, non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

ULTRASONIC BATH DISINFECTANT [/ VIRUCIDAL*] DIRECTIONS:

Use **Artemis Bio-64C** to disinfect hard nonporous non-critical objects compatible with Ultrasonic cleaning units. Pour fresh use-solution of 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] of **Artemis Bio-64C** per gallon of water directly into bath chamber. Use 8 oz. per gallon of water to kill Adenovirus Type 5 and type 7. Pre-clean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufacturer's directions. Remove objects and wash with sterile water [sterile water for injection] or allow to air dry. Prepare fresh solution for each use.

DISINFECTION OF [WHIRLPOOL [BATH[S] [UNITS]]]:

After using the [whirlpool [bath] [unit]], drain and refill with fresh water to [just cover the intake valve] [cover the highest jet] [2 inches above the highest jet]. Add 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] of **Artemis Bio-64C** for each gallon of fresh water added. Start the pump to circulate the solution. Wash down [the [deck] [seat of chair lift] [any related equipment]] any uncovered surfaces on the [bath] [unit] with a clean swab, brush or sponge with the solution. Treated surfaces must remain wet for 10 minutes. Use 8 oz. per gallon of water to kill Adenovirus Type 5 and type 7. After the [bath] [unit] has been thoroughly disinfected, drain and rinse surfaces with fresh water. Wipe dry with a clean sponge or cloth or allow to air dry. Repeat for heavily soiled units.

DISINFECTION OF PEDICURE FOOT SPAS:

For heavily soiled units, drain the water and thoroughly clean all hard nonporous surfaces with soap of detergent. After using pedicure foot spa, drain and refill with fresh water to cover the intake valve or highest jet by 2 inches. Add 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] of product per gallon of fresh water. Start pump to circulate the solution. Turn the pump off to allow the solution to sit for 10 minutes. Wash down the unit sides and seat with a clean swab, brush, or sponge such that these surfaces remain wet for 10 minute contact time, drain the solution from the pedicure foot spa and rinse with fresh water.

FOR USE ON FINISHED FLOORS: To limit gloss reduction use **Artemis Bio-64C** at 2 oz. or [2 - 4 oz.] per gallon. Apply with a damp mop or autoscrubber. Allow surface to remain wet for 10 minutes. Wipe or allow to air dry. Do not use on floor finish at 8 oz. per gallon.



[Animal Viruses:]

Avian Infectious Bronchitis Virus
Avian Influenza virus (H3N2)
Avian Influenza virus (H5N1)
Canine Distemper Virus
Feline Calicivirus
Feline Panleukopenia Virus
Murine Norovirus
Newcastle's Disease Virus
Pseudorabies Virus

["SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA" AND OTHER ANIMAL VIRUSES LISTED ON THIS LABEL]

{or}

[VETERINARY [PRACTICE]] [FACILITIES] / [ANIMAL CARE] [FACILITIES] / [ANIMAL LABORATORY] [FACILITIES] / [ZOOS] / [PET SHOPS] / [KENNELS] DISINFECTION [/ VIRUCIDAL*] DIRECTIONS:

For cleaning and disinfecting hard nonporous surfaces: equipment used for feeding or watering animals, utensils, instruments, cages, kennels, stables, catteries, pens, stalls and etc. Remove all animals and feeds from premises, animal transportation vehicles, crates, pens, stalls and etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 2 oz. *or* [2 - 4 oz.] *or* [2 – 8 oz.] of **Artemis Bio-64C** per gallon of water [or equivalent dilution] for a period of 10 minutes. Use 8 oz. per gallon of water to kill Adenovirus Type 5 and Type 7. Use 32 oz. per gallon of water to kill Feline Panleukopenia Virus. For Murine norovirus, use dilution must be made with deionized water. Wipe or allow to air dry. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, and scrapers used to remove litter and manure. Thoroughly scrub all treated surfaces, then rinse all surfaces that come in contact with food, including equipment used for feeding or watering, with potable water before reuse. Ventilate buildings, animal enclosures, [vehicles] and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

FARM PREMISE USE:

Remove all animals and feed from premises, vehicles and enclosures. 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. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with a use-solution of 2 oz. *or* [2 - 4 oz.] *or* [2 – 8 oz.] of **Artemis Bio-64C** per gallon of water [or equivalent dilution] for a period of 10 minutes. Use 8 oz. per gallon of water to kill Adenovirus Type 5 and Type 7. 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. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.



POULTRY AND SWINE PREMISE

DISINFECTION [/ VIRUCIDAL*] DIRECTIONS: Remove all animals and feeds from premises, vehicles, and enclosures such as coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] of **Artemis Bio-64C** per gallon of water. Saturate surfaces with the disinfecting solution for 10 minutes. Use 8 oz. per gallon of water to kill Adenovirus Type 5 and Type 7. 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. Ventilate buildings, cars, trucks, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

Hatcheries: Use 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] of **Artemis Bio-64C** per gallon of water to treat the following hard nonporous surfaces: hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces wet for 10 minutes or more. Wipe dry with a clean cloth or sponge or allow to air dry.

Vehicles: Treat all vehicles including mats, crates, cabs and wheels with water and **Artemis Bio-64C** - Use 2 oz. of **Artemis Bio-64C** per gallon of water to treat all vehicles. Use 8 oz. per gallon of water to kill Adenovirus Type 5 and type 7. Leave all treated surfaces wet for 10 minutes or more. Wipe dry with a clean cloth or sponge or allow to air dry.

Dressing Plant Disinfectant Directions: Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Cover or remove all food and packaging materials. Remove all heavy soils prior to application. Saturate all surfaces with a 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] of **Artemis Bio-64C** per gallon of water solution. Scrub to loosen all soils. Surfaces must remain wet for 10 minutes, then thoroughly rinsed with potable water before operations are resumed.

MUSHROOM FARM PREMISE USE:

Site Preparation: The first step in any on-going sanitation program must be the removal of gross contamination and debris. This is accomplished by using a shovel, broom, or vacuum, depending on the area to be disinfected.

Cleaning and Disinfection: For general cleaning and disinfection, use 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] of **Bio-Oxygen Bio64C** per gallon of water [or equivalent dilution]. Apply use solution with a cloth, mop, sponge, sprayer or by immersion to thoroughly wet the surfaces. Treated surfaces must be allowed to remain wet for 10 minutes. Wipe or allow to air dry. For heavily soiled areas, preclean first. Prepare a fresh solution for each use or more often if solution becomes visibly diluted, clouded or soiled.

For Heavy Duty Cleaning: When greater cleaning is desired, use 8 oz. of **Artemis Bio-64C** per gallon of water. Heavily soiled areas may require repeated cleaning before treatment.

DO NOT APPLY USE-SOLUTION TO THE MUSHROOM CROP, COMPOST OR CASING. Rinse treated surfaces with potable water before they contact the crop, compost or casing.

CITRUS CANCKER DISEASE CONTROL:

For prevention of Citrus Canker Disease through treatment of precleaned equipment. Effective against *Xanthomonas axonopodis* pv. *citri* [Citrus Canker Disease] at 2000 ppm active quat. Treatments must be applied to trucks, attached trailers, field harvesting equipment including cargo area, wheels, tires, undercarriage, hood, roof, fenders, and any other hard nonporous part of the equipment that can be taken into infested areas. Thoroughly clean all surfaces with soap or detergent and rinse with water. Then saturate surfaces with a 1:27.5 use-dilution [4 3/4 oz. of **Artemis Bio-64C** per gallon of water or 19 oz. of **Artemis Bio-64C** per 4 gallons of water] [or equivalent dilution] [2000 ppm active quat] for a period of 10 minutes. Allow to air dry. All surfaces that come in contact with food or crop must be rinsed with potable water before reuse. To prevent the spread of Citrus Canker Disease by this artificial means of transportation, treatments are made by trigger spraying, dipping or brushing. Clothing must be either rinsed or laundered before reuse. Footwear must be rinsed before reuse.



TO SANITIZE NON-FOOD CONTACT

Add [mix] 2 oz. of **Artemis Bio-64C** per 4 gallons of water [1/2 oz. of **Artemis Bio-64C** per gallon of water] to sanitize hard nonporous surfaces. Treated surfaces must remain wet for 60 seconds. Wipe dry with asponge, mop or cloth or allow to air dry.

Do not use in food preparation, food handling and food storage areas. This product is not to be used on glassware, dishware, cookware or utensils.

TO SANITIZE BARBER / SALON INSTRUMENTS AND TOOLS:

Immerse precleaned barber / salon instruments and tools (such as combs, brushes, razors, scissors, blades, plastic rollers and manicure instruments) in a use-solution of 2 oz. of **Artemis Bio-64C** per 4 gallons of water [or equivalent dilution] for at least 60 seconds [one minute]. Rinse thoroughly and dry before use.

Prepare a fresh solution daily or more often if solution becomes visibly diluted, cloudy or soiled.

NOTE: Plastics may remain immersed until ready to use. Stainless steel shears and instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

SANITIZATION OF WHIRLPOOL [BATH[S] [UNITS]:

After using the whirlpool [bath] [unit], drain and refill with fresh water to [just cover the intake valve] [cover the highest jet] [2 inches above the highest jet]. Add 2 ounces of **Artemis Bio-64C** for each 2 - 4 gallons of fresh water added. Start the pump to circulate the solution. Wash down the [[deck] [seat of chair lift] [any related equipment] and] any uncovered surfaces on the [bath] [unit] with a clean swab, brush or sponge with the solution. Treated surfaces must remain wet for at least 60 seconds. Drain bath and wipe dry with a clean sponge or cloth or allow to air dry.



For Food Contact Surfaces, Food Processing Equipment and Utensils in, Dairies, Public Eating Establishments and Food Processing Plants [40 CFR 180.940 (a)]

1 oz. **Bio-Oxygen Bio64C** per 2 $\frac{3}{4}$ gallons of water [150 active quat] [or equivalent dilution]

{or}

1 oz. **Bio-Oxygen Bio64C** per 2 gallons of water [200 active quat] [or equivalent dilution]

{or}

1 oz. **Bio-Oxygen Bio64C** per 1 $\frac{1}{3}$ gallons of water [300 active quat] [or equivalent dilution]

{or}

1 oz. **Bio-Oxygen Bio64C** per 1 gallon of water [400 active quat] [or equivalent dilution]

{or}

1 oz. **Bio-Oxygen Bio64C** per 2 $\frac{3}{4}$ – 2 gallons of water [150 – 200 ppm active quat] [or equivalent dilution]

{or}

1 oz. **Bio-Oxygen Bio64C** per 2 $\frac{3}{4}$ – 1 $\frac{1}{3}$ gallons of water [150 – 300 ppm active quat] [or equivalent dilution]

{or}

1 oz. **Bio-Oxygen Bio64C** per 2 $\frac{3}{4}$ – 1 gallons of water [150 – 400 ppm active quat] [or equivalent dilution]

{or}

1 oz. **Bio-Oxygen Bio64C** per 2 – 1 $\frac{1}{3}$ gallons of water [200 – 300 ppm active quat] [or equivalent dilution]

{or}

1 oz. **Bio-Oxygen Bio64C** per 2 – 1 gallons of water [200 – 400 ppm active quat] [or equivalent dilution]

{or}

1 oz. **Bio-Oxygen Bio64C** per 1 $\frac{1}{3}$ – 1 gallons of water [300 – 400 ppm active quat] [or equivalent dilution]



TO SANITIZE FOOD CONTACT

{or}

TO SANITIZE FOOD PROCESSING EQUIPMENT AND OTHER HARD SURFACES IN FOOD PROCESSING LOCATIONS, DAIRIES, RESTAURANTS AND BARS:

Use **Artemis Bio-64C** to sanitize hard nonporous surfaces of food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage and display equipment and other hard surfaces.

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 objects with a good detergent or compatible cleaner followed by a potable water rinse before application of the sanitizing solution.

Apply a use-solution of (*insert appropriate dilution here*) [or equivalent dilution] 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 [one minute] followed by adequate draining and air drying. Do not rinse. Prepare a fresh solution for each use. For mechanical application, use- solution may not be reused for sanitizing applications but may be reused for other purposes such as cleaning.

Apply to sink tops, countertops, refrigerated storage and display equipment and other stationary hard nonporous surfaces by cloth, sponge or brush or coarse spray.

Sanitize dishes, silverware, glasses, cooking utensils and other similar size food processing equipment by immersion.

Artemis Bio-64C can be used in accordance with the U.S. Public Health Service food service sanitization recommendations.

U.S. PUBLIC HEALTH SERVICE FOOD SERVICE SANITIZATION RECOMMENDATIONS

CLEANING AND SANITIZING: Equipment and utensils shall be thoroughly pre-flushed or pre-scraped and when necessary, pre-soaked to remove gross food particles and soil.

1. Thoroughly wash equipment and utensils in hot detergent solution.
2. Rinse utensils and equipment thoroughly with clean water.
3. Sanitize equipment and utensils by immersion in a use solution of (*insert appropriate dilution here*) [or equivalent dilution] for at least 60 seconds at a temperature of 75°F.
4. For equipment and utensils too large to sanitize by immersion, apply a use-solution of (*insert appropriate dilution here*) by rinsing, spraying or swabbing until thoroughly wet.
5. Allow sanitized surface to drain and air dry. Do not rinse.

WISCONSIN STATE BOARD OF HEALTH DIRECTIONS FOR EATING ESTABLISHMENTS

1. Scrape and pre-wash utensils and glasses whenever possible.
2. Wash with a good detergent or compatible cleaner.
3. Rinse with potable water.
4. Sanitize in a use-solution of (*insert dilution from dilution box*). Immerse all utensils for at least two minutes or for contact time specified by governing sanitary code.
5. Place sanitized utensils on a rack or drain board to air-dry.
6. Prepare a fresh sanitizing solution at least daily or when visibly soiled or diluted.

NOTE: A clean potable water rinse following sanitization is not permitted under Section HFS 196, Appendix 7-204.11 of the Wisconsin Administrative Code (reference CFR 180.940 (a)).

TO SANITIZE [BEVERAGE] [SOFT SERVE ICE CREAM] [OTHER FOOD] DISPENSING EQUIPMENT:

1. Wash equipment with a compatible detergent and rinse with potable water prior to sanitizing.
2. Fill equipment with a solution of (*insert appropriate dilution here*).
3. Allow solution to remain in equipment for at least 60 seconds.
4. Drain thoroughly before reuse and allow to air dry.



TO SANITIZE ICE MACHINES:

1. Turn off refrigeration.
2. Wash equipment with a compatible detergent and rinse with potable water prior to sanitizing.
3. Apply a solution of (*insert appropriate dilution here*) by mechanical spray, directly pouring, or by recirculating through the system.
4. Allow surfaces to remain wet or solution to remain in equipment for at least 60 seconds.
5. Drain thoroughly before reuse and allow to air dry.

TO SANITIZE SANITARY FILLING EQUIPMENT:

Wash surfaces with a compatible detergent and rinse with potable water prior to sanitizing. Prepare a use-solution of (*insert appropriate dilution here*) for final washer and rinser applications. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly before reuse and allow to air dry.

TO SANITIZE BEER FERMENTATION AND STORAGE TANKS:

Wash surfaces with a compatible detergent and rinse with potable water prior to sanitizing. Prepare a use-solution of (*insert appropriate dilution here*) [or equivalent dilution] for mechanical or automated systems. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly and allow to air dry before reuse.

TO SANITIZE EGG SHELLS INTENDED FOR FOOD:

To sanitize previously cleaned food-grade eggs in shell egg and egg product processing plants, spray with a use-solution of (*insert appropriate dilution here*) [or equivalent dilution]. The solution must be equal to or warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow to drain. Eggs sanitized with this product shall be subjected to a thorough potable water rinse only if they are to be broken immediately for use in the manufacture of egg products. Eggs must be reasonably dry before casing or breaking. The solution must not be re-used for sanitizing eggs.

Note: Only clean, whole eggs can be used for sanitizing. Dirty, cracked or punctured eggs cannot be sanitized.

{For food processing or other facilities that have installed entryway sanitizing systems}

SHOE BATH SANITIZER DIRECTIONS: To prevent cross contamination into animal areas, shoe baths containing one inch of freshly made solution must be placed at all entrances to buildings and hatcheries. Scrape waterproof work boots and place in a 2 oz. per 4 gallons of water solution for 60 seconds prior to entering area. Change the solution in the bath daily or more often if solution appears diluted or soiled.

SHOE FOAM SANITIZER DIRECTIONS:

To prevent cross contamination into animal areas and the packaging and storage areas of food plants. Apply a foam layer approximately 1/2 to 2 inches thick made from a solution of 2 oz. of **Artemis Bio-64C** per 2 – 5 ½ gallons of water [150 – 400 ppm active quat] [or equivalent dilution], at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply the foam layer. Follow the foaming directions as specified by the manufacturer of the foam generator or aerator. Scrape waterproof work boots [shoes]. Stand or walk through foamed area for 60 seconds prior to entering area. Wash and replace Foam Area at least daily or more often if the Foam Area appears diluted or soiled.

TO SANITIZE SOFT SURFACES:

Add [mix] 2 oz. or [2 - 4 oz.] or [2 – 8 oz.] per gallon of water [1:64]. Apply use solution with a sprayer. Hold bottle 6" – 8" from surface and spray until fabric is wet. Fabric must remain wet for 5 minutes. Allow fabric to Air dry. (Reapply as necessary.) (Gross) (Highly)(Heavily) soiled areas must be cleaned prior to sanitizing.



TO CLEAN AND DEODORIZE: Mix 2 oz. **ARTEMIS AG-SOLUTIONS** per gallon of water to clean and deodorize surfaces. Apply using a cloth, mop, sponge or sprayer. Wipe or allow to air dry.

Cleaning Solution: Dilute 2 - 4 oz. per gallon of water for cleaning of kitchen counters, tables, walls, bathrooms, toilet seats, mopping floors and large routine applications.

Deodorizing directions:

Nursing Homes, Hospitals, Hotels, Schools, Restaurants: 2 - 4 oz. in chemical toilets, waste receptacles, bed pans, drainage bottles, diaper pails, hampers, disposals, commodes and air conditioner pans will eliminate odors.

Mopping Solutions, Automatic Scrubbers: 2 - 4 oz. per gallon of cleaning solution eliminates undesirable odors.

Air Freshener/Automotive Uses: 8 ounces per gallon of water or desired concentration will effectively neutralize damp musty odors caused by mildew in storage areas, basements, closets and bathrooms. Effective on smoking and cooking odors [garlic, fish, onions, etc.]. Automobile odors from tobacco, musty carpet smell and beverage smells will be eliminated.

RV Holding Tanks: Toilet waste: cover bottom of holding tank with water and add 2 - 4 oz. If odors return before time to empty, simply add 2 - 4 oz. to the tank. Kitchen waste: 2 - 4 oz. of **Artemis Bio-64C** to gray water tank as needed to control malodors created by dirty dish water.

Pet Odors: Use 8 - 12 oz. per gallon of water or desired concentration, for urine, feces, and vomit, in carpet and upholstery. Clean prior to application then spray onto affected areas. Test hidden area for colorfastness. Allow 10 minutes contact time. Then blot with clean cloth. Allow to dry. Also effective on pet bedding and litter boxes.