

70271-22

10/25/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

October 25, 2012

Ms. Cristina Griffin  
Agent for KIK  
12510 Prosperity Drive  
Suite 160  
Silver Spring, Maryland 20904

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Subject: Metacomet 160B  
EPA Registration No.: 70271-22  
Application Date: 09/18/2012  
Receipt Date: 09/19/2012

Dear Ms. Griffin:

The following amendment submitted in connection with registration under FIFRA, as amended, is acceptable.

**Proposed Amendment**

- Label corrections

**General Comments**

A stamped label is enclosed for your records. Submit three (3) copies of your final printed label before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, you may contact Jaclyn Carl at 571-384-5684 or by email at [carl.jaclyn@epa.gov](mailto:carl.jaclyn@epa.gov). When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely,

A handwritten signature in black ink, appearing to read "Monisha Harris", written over a circular stamp or mark.

Monisha Harris  
Product Manager (32)  
Regulatory Management Branch II  
Antimicrobials Division (7510P)



# Metacomet 160B

**Active Ingredient:**  
Sodium Hypochlorite..... 8.25%  
**Other Ingredients:**..... 91.75%  
**TOTAL:**..... 100.00%  
Yields 7.86% Available Chlorine

## KEEP OUT OF REACH OF CHILDREN

### DANGER [Corrosive]

**FIRST AID:** Call a poison control center [(1-800-222-1222)] or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

**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.

**if on skin or clothing:** Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes.

**if swallowed:** Have a 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.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

See side [or back] panel for additional precautionary labeling. [additional precautions]

#### Manufactured by:

KIK International, Inc.  
33 Macintosh Blvd.  
Concord, Ontario L4K4L5

Santa Fe Springs CA 90670 EPA Est. No. 70271-CA-2  
Denver CO 80207 EPA Est. No. 70271-CO-1  
Auburndale FL 33823 EPA Est. No. 70271-FL-1  
Hampton GA 30228 EPA Est. No. 70271-GA-1  
Houston TX 77054 EPA Est. No. 70271-TX-1  
Salem VA 24153 EPA Est. No. 70271-VA-1  
Tacoma WA 98421 EPA Est. No. 70271-WA-1  
Concord ON CN L4K4K5 EPA Est. No. 70271-CAN-1  
Woodridge, IL 60517 EPA Est. No. 55852-IL-01

[actual establishment shown in code above or below label printed on bottle]

EPA Reg. No. 70271-22

**ACCEPTED**  
OCT 25 2012  
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 70271-22

NET CONTENTS \_\_\_\_\_

[BATCH CODE \_\_\_\_\_]

May be located anywhere on label

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**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**

**DANGER:** Corrosive. May cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses and rubber gloves when handling this product. Wash after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.

*[In accordance with PR notice 95-1, use the following complete Environmental Hazards statement for containers 5 gallons and larger:]*

**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 public 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.

*[For containers smaller than 5 gallons use the following:]*

**Environmental Hazards**

This product is toxic to fish and aquatic organisms.

**Physical and Chemical Hazards**

Strong oxidizer. Flush drains before and after use. Do not use or mix with other household chemicals, such as toilet bowl cleaners, rust removers, acid or ammonia containing products. To do so will release hazardous gasses. Prolonged contact with metal may cause pitting or discoloration.

**STORAGE AND DISPOSAL**

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

**Product Storage:** Store this product in a cool, dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood area with large quantities of water. **Product Disposal:** Product or rinsate that cannot be used must be diluted with water before disposal in a sanitary sewer.

**Container Handling:**

*[For Residential uses only]*

Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or place in trash.

*[For Institutional uses only, nonrefillable container 5 gallons or less]*

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Dispose of rinsate in sanitary sewer. Offer for recycling if available or place in trash.

*[For Institutional uses only, refillable container container]*

Refillable container. Refill this container with bleach only. Do not re-use this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Offer for recycling if available or puncture and dispose of in a sanitary landfill.

*[Bulk Shipment Transport Vehicle labeling: The following is to be used for bulk shipment transport vehicle labeling. In accordance with 40 CFR 156.140 (e) "Exemption for transport vehicles" transport vehicles are exempt from the requirements to provide refillable or nonrefillable container instructions.]*

**STORAGE AND DISPOSAL**

Do not contaminate food or feed by storage, disposal or cleaning of equipment. **Product Storage:** Store in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood area with large quantities of water. **Product Disposal:** Product rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer.



**[List of Approved Organisms:]**

[ATCC numbers are required on the master label, but are not required to be listed on the production label]

This product, when used as directed on hard, non-porous surfaces, is effective against the following:

**FUNGICIDAL** [10 minute contact time]

- *Trichophyton mentagrophytes* (Athlete's foot fungus) [ATCC 9533]
- *Aspergillus brasiliensis* (mildew) [ATCC 16404]

**BACTERICIDAL** [5 minute contact time except as indicated]

- *Escherichia coli* O157:H7 (E. coli) [ATCC 35150]
- *Pseudomonas aeruginosa* (pseudomonas) [ATCC 15442]
- *Salmonella enterica* (salmonella) [ATCC 10708]
- *Shigella dysenteriae* [ATCC 13313]
- *Staphylococcus aureus* (staph) [ATCC 6538]
- Methicillin Resistant *Staphylococcus aureus* (MRSA) [ATCC 33592]
- *Clostridium difficile* spore (C. diff) [#] [ATCC 700792] [10 minute contact time]
- *Streptococcus pyogenes* (strep) [ATCC 12344]

**VIRUCIDAL** [5 minute contact time except as indicated]

- Adenovirus type 2 [ATCC VR-846]
- Avian influenza A virus (Avian Flu virus) [ATCC VR-2072]
- Canine parvovirus [ATCC VR-2017]
- Cytomegalovirus [ATCC VR-538]
- Feline panleukopenia virus (Parvovirus) [ATCC VR-648]
- Hepatitis A virus [ATCC VR-1358, strain M-175]
- Hepatitis B virus (HBV)[ + ] [7/31/07 strain duck Hepatitis B from Hepadnavirus Testing, Inc.] [10 minute contact time]
- Hepatitis C virus (HCV)[ + ] [Oregon C24v-genotype 1 Bovine Viral Diarrhea Virus] [10 minute contact time]
- Herpes simplex virus type 1 (herpes) [ATCC VR-733]
- Herpes simplex virus type 2 (herpes) [ATCC VR-734]
- Human immunodeficiency virus type 1 (HIV-1)[ + ] [HTLV-III<sub>B</sub> strain]
- H1N1 Influenza A virus [ATCC VR-1469, Strain A/PR/8/34] [Pandemic 2009 H1N1 Influenza A virus]
- Influenza A virus (Strain Hong Kong) [ATCC VR-544]
- Poliovirus type 1 [ATCC VR-1000]
- Respiratory syncytial virus [ATCC VR-26]
- Rhinovirus type 37 (viruses that cause colds and flu) [ATCC VR-1147]
- Rotavirus [obtained from Univ. Ottawa, Ontario, Canada, Strain WA]

**Non-food contact Sanitizer** [5 minute contact time]

- *Staphylococcus aureus* (staph) [ATCC 6538]
- *Enterobacter aerogenes* [ATCC 13048]

**Laundry Sanitizers**

- *Staphylococcus aureus* (staph) [ATCC 6538]
- *Klebsiella pneumoniae* [ATCC 4352]

[+ If HIV-1, HBV, or HCV claim is used, HIV-1, HBV, HCV directions must be included on the printed label.]

[# If *Clostridium difficile* claim is used, *Clostridium difficile* directions must be included on the printed label.]



**[Optional Antimicrobial Claims:]** [Note: In accordance with EPA 2005 "Germs" policy, asterisk next to "germs" is optional because all three major classes of organisms are approved.]  
[Choose from the following claims as appropriate, location is optional.]

- Antibacterial
- Antifungal [10 minute contact time]
- Aids in the reduction of cross-contamination between treated surfaces
- Bactericide • Bactericidal
- Broad Spectrum Disinfectant
- Cleans [And Disinfects]
- Disinfectant • Disinfecting • Disinfects
- Disinfecting & Deodorizing
- Disinfects [And] [Sanitizes] [And Deodorizes] [And Cleans] [Around The House]
- Disinfects [, Sanitizes] [, Eliminates Mildew] [And Deodorizes] [use 10 minute fungi directions if mildew included]
- Disinfect, Deodorize [and Kill 99.9% Of Germs\*] [On Counters] In [Sinks] [Showers] [Bathtubs] [and] [On Vinyl and Glazed Tile Floor]
- Eliminates Odors
- Fights Germs\* [And Odors]
- Fungicide • Fungicidal [in 10 minutes]
- Germicide • Germicidal
- Gets Rid Of Germs\* [and/or Dirt]
- [Helps] Prevent[s] The Spread Of The Cold And Flu Virus†† [In Your Home] [and/or Office] from treated surfaces
- Home Disinfectant Essential
- Hospital Disinfectant

[Note: All "Kills" claims below may start with "Also" (as in "Also kills flu...)]

- Kills and prevents cross contamination of Germ\*]
- Kills Athlete's Foot Fungus †† [In 10 Minutes]
- Kills [or Eliminates] [or Removes] [99.9% Of] [Common Household] Germs\*] [including] [list any approved organism]
- Kills [or Eliminates] [or Removes] [99.9% Of] [Germs\*] [or Bacteria\*\*] [or Viruses\*\*\*] [Commonly Found In] [Bathrooms] [or Homes] [or Households] [or Kitchens] [or Offices]
- Kills [Household] Mold [And Mildew] †
- Kills 99.9% of Germs in your Laundry †††
- Kills 99.9% of bacteria\*\* that can cause food-borne illnesses
- Kills Avian Influenza A virus [On Pre-Cleaned [Environmental] Surfaces]
- Kills [Eliminates] Flu Virus †
- Kills [Eliminates] MRSA †††
- Kills Germs and Removes Odors
- Kills Viruses That Cause Colds And Flu††
- Kills Virus That Causes The Flu†
- Kills H1N1 Influenza A virus
- Kills Pandemic 2009 H1N1 Influenza A virus
- Kills *Clostridium difficile* [C. diff] Spores On Hard Non-Porous [Environmental] Surfaces [in 10 minutes]
- Kills HIV-1 On Hard Non-Porous [Environmental] Surfaces
- Meets OSHA Bloodborne Pathogen Standards
- Mildewcide • Mildewcidal • Mildewstat[ic] [in 10 minutes]
- Protection Against Germs\*]
- Pseudomonacidal
- Reduces exposure to Methicillin Resistant *Staphylococcus aureus* (MRSA) from treated surfaces
- Removes Stains and Disinfects
- Sani-Clean
- Sanitizing • Sanitizer • Sanitizes
- Streptocidal
- Staphylocidal
- [This Product] meets AOAC [Use-Dilution test] efficacy standards [for hospital disinfectants].
- 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)."
- Virucide • Virucidal



[SYMBOLS connect to the corresponding symbol in the claims above. Different symbols may be used on printed label. All organisms do not have to be listed on the printed labels, but listing must be consistent with EPA guidance requirements for germs claims]

[\*] *Staphylococcus aureus*, Methicillin Resistant *Staphylococcus aureus* (MRSA), *Streptococcus pyogenes*, *Salmonella enterica*, *Trichophyton mentagrophytes* (Athlete's foot fungus), *Escherichia coli* O157:H7, Influenza A virus, H1N1 Influenza A virus, Rhinovirus type 37, Avian influenza A virus (Avian Flu), *Aspergillus brasiliensis* (mildew), *Pseudomonas aeruginosa*, *Shigella dysenteriae*, Adenovirus type 2, Canine parvovirus, Cytomegalovirus, Feline panleukopenia virus (Parvovirus), Hepatitis A virus, Herpes simplex virus type 1, Herpes simplex virus type 2, Poliovirus type 1, Respiratory syncytial virus, Rotavirus, HIV-1 [in 5 minutes], HBV (Hepatitis B virus), HCV (Hepatitis C virus), *Clostridium difficile* (*C. diff*) [in 10 minutes]

\*\* *Escherichia coli* O157:H7, *Pseudomonas aeruginosa*, *Salmonella enterica*, *Staphylococcus aureus* (staph), Methicillin Resistant *Staphylococcus aureus* (MRSA), *Streptococcus pyogenes* (strep), *Shigella dysenteriae* [in 5 minutes], *Clostridium difficile* (*C. diff*) [in 10 minutes]

\*\*\* Adenovirus type 2, Avian influenza A virus (Avian Flu), Canine parvovirus, Cytomegalovirus, Feline panleukopenia virus (Parvovirus), Hepatitis A virus, HBV (Hepatitis B virus), HCV (Hepatitis C virus) [in 10 minutes], Herpes simplex virus type 1, Herpes simplex virus type 2, Poliovirus type 1, Respiratory syncytial virus, Rotavirus, Influenza A virus, H1N1 Influenza A virus, Rhinovirus type 37 [in 5 minutes]  
† *Trichophyton mentagrophytes* (Athlete's foot fungus) & *Aspergillus brasiliensis* (mildew) [in 10 minutes]

⊕ *Aspergillus brasiliensis* (mildew) [in 10 minutes]

†† *Trichophyton mentagrophytes* (Athlete's foot fungus) [in 10 minutes]

††† Methicillin Resistant *Staphylococcus aureus* (MRSA)

‡ Influenza A virus –and/or- H1N1 Influenza A virus

‡‡ Influenza A virus –and/or- H1N1 Influenza A virus & Rhinovirus type 37

‡‡‡ Sanitizes: *Staphylococcus aureus* (staph) & *Klebsiella pneumoniae*



**GENERAL NON-PESTICIDAL CLAIMS AND INFORMATION:**


- [A more] sustainable solution for the environment
- Avoid Prolonged Contact With Metal Since Corrosion Or Discoloration May Occur
- Always Dilute In Strict Accordance With The Label Directions
- Always Mix This Product Strictly In Accordance With Label Instructions
- Anti-Allergen (non-living)
- Bleaches Out Tough Stains
- Bleach Works
- Boosts Cold Water Cleaning Power
- Boosts Cold Water Washing Power
- Boosts Laundry Cleaning Power
- Brightens Laundry
- Check To Make Sure Bottle Is Always Tightly Capped
- Cleans [and Deodorizes] [Around The House]
- Cleaning booster (even) on cold water washing
- Clean Smell[ing]
- Clean[s] White[s] [cleans & whitens laundry]
- Cold Water Booster
- Commercial/Institutional Use
- [Compatible] For Use In [High Efficiency] [or HE] Washing Machines
- Concentrated
- Contains No Phosphorus
- Deodorizer • Deodorizes • Deodorize
- Do Not Break Open - To Be Sold As A [Two] [or Three] [or Four] Pack
- Do Not Drop
- Do Not Use This [Product] [or Bleach] At Full Strength For Cleaning [Surfaces]
- Do not use on Acetate, Leather, Silk, Spandex or Wool, Mohair and non-fast colors.
- Do Not Use This Product On Chipped Baked Enamel
- Easier To Handle, Pour, and Store Than Before
- Easy to Handle Bottle
- Easy pour spout
- [Eliminates] [or Removes] Odors
- Exercise Care In Handling
- [Family] [or Giant] [or King] [or Value] Size
- Fabric Friendly®
- Fiber Friendly®
- For [Use in] Standard [or Top Load] & HE [or Front Load] [Washing] Machines [washers]
- For [Use in] HE [or Front Load] [Washing] Machines [washers]
- For [Use in] Standard [or Top Load] [Washing] Machines [washers]
- For A Clean[er], Fresh[er] Household & [and] Laundry
- For odor-free laundry
- For Cold Washing
- Freshens
- Gets Even Your Dirtiest Clothes White
- Great For Cold Water [Cleaning]
- Helps to maintain your HE machine
- Helps remove odor causing residues in standard (top loading) & HE (or front loading) Washing Machines
- Helps remove odor causing residues in HE (or front loading) washing machine(s)
- HE plus 4 in 1 (or 4 in 1) ([i.e.] Cold water washing, Fabric protection, Anti-allergen (non-living) and Deodorization)
- [High Efficiency] [or HE] [Compatible]
- In-wash booster
- Just As Safe On Bleachable Fabrics As Before
- Keep Bottle[s] Upright and Tightly Capped
- Keep Upright
- Looks [and/or Smells] Clean
- More Value [Than Before]
- [Now][With] Fabric Protection
- [Now][With] Fiber Protection
- [Now] 33% More Concentrated
- Proudly Made In [The USA] [North America]



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Product Should Be Carried and Stored In An Upright Position To Avoid Spillage

Purest White

Recycle [Container] 

Recyclable Container

Reduce Your Carbon Footprint. Buy Products [Made In The USA.] [Made In North America.]

Removes Non-living Allergens

Removes [Tough] Stains

Safe For All Washing Machines

Safe On Bleachable Fabrics

Safe on HE (or Front loading) Washing Machine

Same # of loads as before

Sparkling White

Smaller Bottle Is Easier To Handle and Store Than Before

Smaller is better

Smaller bottle means easier to handle, pour and store

Splash Resistant With An Easy Open Seal

Takes less space in your cupboard

The Original All Purpose Cleaner

This Product Gets Even Your Dirtiest Clothes White

Ultra

Use 1/2 Cup per load

Value Size [2] [or 3] [or 4] Pack

Washing Machine Cleaner

Wear Gloves When Cleaning For Prolonged Periods

White Brite

Whitens [Bleachable Fabrics]

Whitens (and removes stains) even on cold water washing

Whitest Whites

Whitens [And Removes Stains]

Works in your maintenance cycle [too]

Works Even In Cold Water!



[other sizes may be substituted]



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**FOR USE IN:**

[The following headings may be placed above or in front of appropriate directions (e.g., Household Use in front of directions for dishes or floors)] [Use sites may be pluralized below]

DAYCARE CENTER  
FARM [FARM]  
HEALTH CLUBS  
HOME  
HOSPITAL [USE]  
HOTEL

HOUSEHOLD [USE]  
INSTITUTION  
KENNEL  
LOCKER ROOM  
MEDICAL CLINIC  
MEDICAL FACILITY

NURSING HOME  
OFFICE BUILDING  
RESTROOM  
SCHOOL

**DIRECTIONS FOR USE**

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

[Use one or more of the following laundry directions as appropriate:][All numbered directions may be used in paragraph form without numbers.]

**LAUNDRY [BLEACHING]:**

Use to bleach white and colorfast Acrylics, Cotton, Nylon, Polyester, Rayon (test to be sure). Do not use on Acetate, Leather, Silk, Spandex or Wool, Mohair and [or] non-fast colors. Sort laundry by color and fabric. Separate whites from colors, light colors from dark colors.

**[Bleach Test:]** Before using, mix 1 tablespoon of bleach with ¼ cup of water in a glass, rubber, glazed porcelain, or plastic container and test a small piece of fabric in a place that doesn't show. Test all colors, including trim. Let stand one minute, then blot dry. No color change means the article can be bleached safely.

**Top Loading [Machine]** - Before adding clothes, mix ½ cup of bleach with water in top-loading 16 gallon machines or for large top loading automatics or larger heavily soiled loads, use 1 cup. Add clothes.

**Front Loading [Machine]** - Mix ¼ cup bleach with water in front-loading [or HE] 8 gallon machines. If clothes are in machine the addition of bleach can cause damage.

**For HE Washers** - Add using the bleach dispenser filling to the max line following the machine manufacturer's instructions.

**TOP LOAD AUTOMATIC.....½ CUP    LARGE TOP LOADING AUTOMATIC.....1 CUP**  
**FRONT LOAD AUTOMATIC.....¼ CUP    LARGE/HEAVY SOILED LOADS.....1 CUP**

\*For HE Washers, add using the bleach dispenser following the machine manufacturer's instructions.

**LAUNDRY USE:**

1. Before adding clothes, mix ½ cup of bleach with water in top-loading 16 gallon machines or mix ½ cup bleach with water in front-loading [or HE] 8 gallon machines. For large top loading automatics or larger heavily soiled loads, use 1 cup. For HE Washers, add using the bleach dispenser filling to the max line following the machine manufacturer's instructions.
2. Add clothes.
3. Wash and rinse with usual cycles. **[DO NOT use on Acetate, Leather, Silk, Spandex, Wool, or Mohair and [or] non-fast colors.]**  
[OR: additional format:]

**LAUNDRY USE:**

1. Sort your laundry by color and fabric type.
2. Add ½ cup of bleach and laundry detergent to wash water. For extra large machines, add 1 cup.
3. Add laundry.

**To Whiten Nylon and Other Synthetics that have turned yellow or grey:** 1 tablespoon of this product per gallon water. Soak clean fabric in solution for 10 to 15 minutes. Rinse well. Repeat if necessary.

**Today's permanent Press Fabrics are Bleachable** and need this product to get out stains and help prevent dirt build up. Wash with regular laundry as directed: Top-load automatics – ½ cup per load. Wringer-type washers – ½ cup per load. Front-load automatics – ¼ cup per load. Use this product with any good laundry soap or detergent. If your washer has an automatic bleach dispenser, follow washer directions. If not, add this product to wash water before laundry is put in. If laundry is put in before wash water then dilute this product in quart of water and add after machine has started agitating and fabrics are thoroughly wet.

**Machine Washing Directions:** [use at least once per month to keep your washing machine smelling fresh and clean.] If your HE machine has a cleaning cycle, check the manufacturer's directions before use. 1. Select the hot water setting. 2. Fill the bleach dispenser to the maximum level. 3. Run the cycle until it is completed. 4. Run a rinse cycle, manually to flush out any remaining bleach.



**[LAUNDRY SANITIZATION]** [Use one of the following as appropriate:]

[Add to one of the sets of bleaching directions above: If sanitization is desired, increase to 1 cup bleach for top loading, ½ cup for front load machines. Wash and rinse with usual cycles.]

**Laundering:** To bleach and sanitize white and colorfast cotton, linen, nylon, Dacron, Orlon, polyester, Dynel and rayon in washing machine: 1 cup of this product per load for conventional washing machine [16 gallon]; ½ cup for front load [8 gallon] automatic. Add to pre-soak, wash water. If clothes are in machine, dilute product with 1 quart of the wash water before adding.

**To Sanitize Laundry:** add 1 cup of this product per load for conventional washing machine [16 gallon]; ½ cup for front load [8 gallon] automatic. If clothes are in machine, dilute product with 1 quart of the wash water before adding.

**Mops, Brooms, Brushes & Rags:** Pre-wash items, then soak them in bleach solution of 1 Tablespoon per gallon water for at least 10 minutes. Rinse well.

**[LAUNDRY STAIN REMOVAL]**

[Use one or more of the following fabric stain removal directions as appropriate:]

**[To] Remove Stains:** Berry, wine, coffee, tea, ink, grass, dye, medicine stains, scorch and mildew stains: Mix ¼ cup of bleach with a gallon of water. Soak stained area for 5 minutes to remove grass, ink, coffee, tea, scorch, fruit, etc. Rinse thoroughly.

**[To] [Remove Stains:] Stain Removal:**

1. Mix ¼ cup of bleach with a gallon of water.
2. Soak stained area for 5 minutes to remove grass, ink, coffee, tea, scorch, fruit, etc.
3. Rinse thoroughly.

**[To] Remove Stains:** Berry, wine, coffee, tea, ink, grass, dye, medicine stains, scorch and mildew stains: Make solutions of 1 tablespoon of this product to each quart water. Immerse fabric for 5 minutes. Rinse well in clear water. Repeat if necessary.

**[NON- PESTICIDAL: SURFACES OTHER THAN LAUNDRY]**

**To Deodorize & Remove Allergens<sup>3</sup> from Hard Non-porous Surfaces:** Mix ½ cup bleach with 1 gallon of water and apply solution until the surface is thoroughly wet. Wipe with a clean cloth or sponge. No rinsing required.

<sup>3</sup> - This product removes the following non-living allergens: dust mite matter [or particles] • cockroach matter [or particles] • pet dander • pollen particle allergens

**For Stain Removal** - Mix ½ cup with 1 gallon of water.  
*All surfaces:* Add bleach to detergent solution, apply, rinse.

**Removing [To Remove] Mold & Mildew Stains from Outdoor Patios:**

1. Protect plants from overspray.
2. Use ½ cup of bleach per gallon of water to clean unsightly stains using a brush.
3. Rinse entire area, including plants, with water for 3 minutes.

**For Deodorizing** - Mix ½ cup bleach with 1 gallon of water.  
*Garbage Cans:* After washing and rinsing, brush inside with solution. Empty and let drain.

**For Deodorizing Drains** - Pour ½ cup bleach in drain.  
*Drains:* Pour into drain. Flush with hot water.

**For Bleaching -or- Whitening** - Mix ¼ cup with 1 gallon of water.  
*Wooden Surfaces:* Apply for 3 minutes, rinse.



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**DISINFECTING [To Disinfect]:** [Choose one or more sets of directions as appropriate:] [The bracketed 10 minute statement for fungi not required if fungi not listed on label]

[NOTE: Alternate equivalent use rate of 2/3 cup of product per gallon of water may be used instead of use rate of "½ cup of bleach to ¾ gallon (3 qts.) (96 fl. oz.) of water" provided below.]

**[KITCHEN<sup>1</sup>:** [Optional to list one or more:] Appliances, countertops, hard non-porous plastic cutting boards, faucets, floors, freezers, garbage disposals, glass, glazed ceramic tile, linoleum, microwaves, painted woodwork, refrigerators, sinks, stoves, stove tops, trash cans, trash bins, vinyl, walls, work surfaces]

**Kitchen:** Clean and disinfect [May add use site from the list above]<sup>1</sup>:

1. Use ½ cup of bleach to ¾ gallon (3 qts.) (96 fl. oz.) of water.
2. Wash, rinse, or wipe surfaces and then apply disinfecting solution.
3. Let stand 5 minutes, then rinse thoroughly and air dry. [To disinfect fungi let stand 10 minutes before rinsing.]

**[BATHROOM<sup>2</sup>:** [Optional to list one or more:] Bathtubs, countertops, faucets, floors, glazed ceramic tile, glazed porcelain, showers, plastic shower curtains, shower walls, sinks, vinyl, walls]

**[To Disinfect] Bathroom:** Disinfect and deodorize [May add use site from the list above]<sup>2</sup>:

1. Use ½ cup of bleach to ¾ gallon (3 qts.) (96 fl. oz.) of water.
2. Wash, rinse, or wipe surfaces and then apply disinfecting solution.
3. Let stand 5 minutes, then rinse thoroughly and air dry. [To disinfect fungi let stand 10 minutes before rinsing.]

**[To Disinfect] Kitchens and Bathrooms:** Disinfect, deodorize [and kill 99.9% of germs[\*]] on counters, in sinks, showers, bathtubs and on vinyl and tile[d] floors.

1. Wash surfaces with water.
2. Disinfect surfaces with a solution of ½ cup of bleach to ¾ gallon (3 qts.) (96 fl. oz.) of water.
3. Let stand 5 minutes then rinse with water and allow to dry. [To disinfect fungi let stand 10 minutes before rinsing.]

**Disinfecting and Deodorizing [To Disinfect [and Deodorize]] Bathrooms:** To disinfect [,][and] deodorize [and eliminate mold and mildew from] washable surfaces such as tubs, showers, counter tops, sinks, ceramic tile and vinyl flooring

1. Spread a solution of 1 cup of this product per 1 ½ gallons of water on clean surface.
2. Let stand for 10 minutes, then drain or rinse and air dry. [If mold/mildew not used on label, then contact time may be changed to 5 minutes]

**Disinfect Hard Non-porous Surfaces:**

1. Use ½ cup of bleach to ¾ gallon (3 qts.) (96 fl. oz.) of water.
2. Wash, rinse, or wipe surfaces and then apply disinfecting solution.
3. Let stand 5 minutes, then rinse thoroughly and air dry. [To disinfect fungi let stand 10 minutes before rinsing.]

**For Disinfecting -** Mix ¾ cup bleach with 1 gallon of water.

**Floors, Walls [and other hard inanimate surfaces not in direct contact with food]:** Pre-wash surfaces and rinse. Spray, rinse or wipe surface with bleach solution, let stand for 5 minutes. Drain or rinse and air dry. [To disinfect fungi let stand 10 minutes before rinsing.]

**[To] Kill Germs[\*] and Odors in Garbage Cans:**

1. Rinse with soap and water.
2. Put a solution of ½ cup of bleach to ¾ gallon (3 qts.) (96 fl. oz.) of water in the garbage can.
3. Let stand 5 minutes then drain. [To disinfect fungi let stand 10 minutes before rinsing.]

**Disinfecting Children's Hard Non-porous Furniture and Toys:**

1. Ensure all surfaces are colorfast. Wash all surfaces thoroughly.
2. Use a solution of ½ cup of bleach to ¾ gallon (3 qts.) (96 fl. oz.) of water to disinfect children's furniture and toys surfaces.
3. Let stand for 5 minutes, then rinse and allow to dry. [To disinfect fungi let stand 10 minutes before rinsing.]

**Sickroom Equipment:** Wash all surfaces thoroughly. Rinse, then spread a solution of 1 cup of this product per 1 ½ gallons of water over all surfaces. Let stand 5 minutes, then drain. [To disinfect fungi let stand 10 minutes before rinsing.]



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**Special Instructions For Cleaning and Decontamination Against HIV (AIDS VIRUS), HBV (HEPATITIS B VIRUS) and HCV (HEPATITIS C VIRUS) on Surfaces/Objects Soiled with Blood/Body Fluids.**

Kills HIV-1 (AIDS virus), HBV (Hepatitis B virus) and HCV (Hepatitis C virus) on pre-cleaned environmental surfaces/objects previously soiled with blood/body fluids in 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 1 (HIV-1) (associated with AIDS), HBV (Hepatitis B virus) and HCV (Hepatitis C virus).

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

**Cleaning Procedures:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before applying this product.

**Disinfectant Use and Contact Time:** Effective against HIV-1 (AIDS virus), HBV (Hepatitis B virus) and HCV (Hepatitis C virus) on hard non-porous surfaces. Prepare disinfectant by mixing 1 cup (8 fl. oz) of this product to ¾ gallon (3 qts.) (96 fl. oz.) of water to provide approximately 5,000 ppm of available chlorine. Leave surfaces wet for 5 minutes for HIV and 10 minutes for HBV/HCV. Drain and let air dry.

**Disposal of Infectious Materials:** Blood and other body fluids should be autoclaved and disposed of according to Federal, State, and local regulations for infectious waste disposal.

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.

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

**Personal Protection:** Wear appropriate barrier protection such as gloves, gowns, masks or eye covering.

**Cleaning Procedure:** Fecal matter/waste must be thoroughly cleaned from surfaces/objects before disinfection by application with clean cloth, mop and/or sponge saturated with product intended for disinfection. Cleaning should include vigorous wiping and/or scrubbing until visible soil is removed. Special attention is needed for high-touch surfaces. Surfaces in patient rooms should be cleaned in an appropriate manner, with restrooms and other 'dirty' areas cleaned last. Do not reuse soiled cloths.

**Infectious Materials Disposal:** Cleaning materials used that may contain feces/wastes should be disposed of immediately in accordance with local regulations for infectious materials disposal.

**For Killing *Clostridium difficile* spores:** Use 1 part bleach to 6 parts water to achieve a 1:6 dilution (~ 10,000 ppm available chlorine) before use. Clean hard, non-porous surfaces by removing gross filth. Apply 1:6 solution and let stand for 10 minutes. Rinse and air dry. Do not use on non-stainless steel, aluminum, silver or chipped enamel.

**Special Instructions for Inactivating AVIAN INFLUENZA A virus [in] [Veterinary Clinics] [Animal Life Science Laboratories] [Zoos] [Pet Shops] [Kennels] [Breeding and Grooming Establishments] [Animal Housing Facilities] [Poultry houses] [Hatcheries]**

For cleaning and disinfecting hard, non-porous surfaces: equipment, utensils, instruments, cages, kennels, stables, and catteries. Remove all poultry [or animals] and feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings, and manure from floors, walls, and surfaces of facilities occupied or traversed by poultry [or animals]. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of ½ cup of bleach to ¾ gallon (3 qts.) (96 fl. oz.) of water and let stand for 5 minutes, drain and air dry. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, scrappers used in removing litter and manure. Ventilate buildings, coops, and other closed spaces. Do not house poultry [or animals] or employ equipment until treatment has been absorbed, set or dried. All treated feed/water bowls, racks, troughs, automatic feeders, fountains, and waterers must be rinsed with potable water before reuse.



**SANITIZING [To Sanitize] [Non-food contact]:** [Choose one or more sets of directions from the following.

Several versions of wording are offered to provide supplemental distributors with options.]

[NOTE: Alternate equivalent use rate of 2 1/2 tsp. of product per gallon of water may be used instead of use rate of "2 teaspoons of bleach per 3/4 gallon (3 qts.) (96 fl. oz.) of water" provided below.]

**BATHROOM<sup>1</sup>:** Bathtubs, countertops, faucets, floors, glazed ceramic tile, glazed porcelain, showers, non-porous shower curtains, shower walls, sinks, vinyl, walls

**Bathroom:** [To] Sanitize and deodorize [May add use site from the list above]<sup>1</sup>:

1. Use 2 teaspoons of bleach per 3/4 gallon (3 qts.) (96 fl. oz.) of water.
2. Wash, rinse, or wipe surfaces and then apply sanitizing solution.
3. Let stand 5 minutes, and air dry.

**To Sanitize Hard Non-porous Non-food Contact Surfaces:**

1. Use 2 teaspoons of bleach per 3/4 gallon (3 qts.) (96 fl. oz.) of water.
2. Wash, rinse, or wipe surfaces and then apply sanitizing solution.
3. Let stand 5 minutes and air dry.

**For Sanitizing -** Mix 2 teaspoons of bleach per 3/4 gallon (3 qts.) (96 fl. oz.) of water.

**Floors, Walls:** Pre-wash surfaces and rinse. Spray, rinse or wipe surface with bleach solution, let stand for 5 minutes. Drain and air dry.

**Sanitizing [To Sanitize] Your Pet's Litter Boxes:**

1. Wash thoroughly with water and dish detergent.
2. Sanitize with 1/2 cup of bleach to 3/4 gallon (3 qts.) (96 fl. oz.) of water..
3. Let stand 5 minutes then rinse with water and allow to dry.

**Sanitizing [To Sanitize] Children's Hard Non-porous Furniture and Toys:**

1. Ensure all surfaces are colorfast. Wash all surfaces thoroughly.
2. To kill 99.9% germs, use a solution of 2 teaspoons of bleach per 3/4 gallon (3 qts.) (96 fl. oz.) of water to sanitize children's surfaces.
3. Let stand for 5 minutes, then rinse and allow to dry.

**SANITIZING [To Sanitize] [Toilet Bowl]** [Directions based on EPA 1986 standard. Choose one or more sets of directions from the following. Versions of wording are offered to provide supplemental distributors with options.]

**Toilet Bowls:** To sanitize and deodorize pre-cleaned toilet bowls, use 1 cup of this product.

1. Flush, pour in bleach – swab with brush, making sure to get under the rim.
2. Let stand for 10 minutes.
3. Flush. DO NOT use with bowl cleaners or any other household chemicals.

**Toilet Bowl:** To sanitize and deodorize pre-cleaned toilet bowls, use 1 cup of this product. Flush, pour in bleach – swab with brush, making sure to get under the rim. Let stand for 10 minutes. Flush. DO NOT use with bowl cleaners or any other household chemicals.



**[Directions (from other parts of the label) in Table form;  
other directions from body of label may be added to table]**

| DISINFECTING                      | Product | Water                          | Instructions   |
|-----------------------------------|---------|--------------------------------|--|
| Floors, Walls, Bathtubs & Showers | ½ Cup   | ¾ gallon (3 qts.) (96 fl. oz.) | Pre-wash surface and rinse. Spray, rinse or wipe surface with bleach solution, let stand for 5 minutes. Rinse and air dry. [To disinfect fungi let stand 10 minutes before rinsing.] |
| SANITIZING                        | Product | Water                          | Instructions   |
| Non-food Work Surfaces            | 2 Tsp   | ¾ gallon (3 qts.) (96 fl. oz.) | Pre-Wash with detergent, rinse, cover surface with bleach solution for at least 5 minutes, drain, let air dry.   |
| Mops, Brooms, Brushes & Rags      | 1 Tbsp  | ¾ gallon (3 qts.) (96 fl. oz.) | Pre-wash items, then soak them in bleach solution for at least 10 minutes. Rinse well.   |
| DEODORIZING                       | Product | Water                          | Instructions   |
| Garbage Cans                      | ½ Cup   | ¾ gallon (3 qts.) (96 fl. oz.) | After washing and rinsing, brush inside with bleach solution. Empty and let drain.   |
| Drains                            | ½ Cup   | -----                          | Flush drains. Pour into drain. Flush with hot water.   |
| MOLD, MILDEW & STAIN REMOVAL      | Product | Water                          | Instructions   |
| All Surfaces                      | ½ Cup   | 1 Gallon                       | Add bleach to powdered detergent solution. Apply, let stand for at least 5 minutes. Wipe and rinse.  |



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[Optional Table of Proportions]  
 [Proportions for dilution of this product]

Mix quantity of bleach with quantity of water to obtain ppm level indicated.

| PPM* | Quantity of Bleach       | + | Quantity of Water  |
|------|--------------------------|---|--------------------|
| 5    | 1 Part                   |   | 12,800 Parts       |
|      | 1 Drop (0.0017 fl. oz.)  |   | 2¾ cup (22 fl.oz.) |
|      | 1 Tsp (0.17 fl. oz.)     |   | 17 Gallons         |
| 10   | 1 Part                   |   | 6,400 Parts        |
|      | 2 Drops (0.0034 fl. oz.) |   | 2¾ cup (22 fl.oz.) |
|      | 1 Tsp (0.17 fl. oz.)     |   | 8 ½ Gallons        |
| 25   | 1 Part                   |   | 2,588 Parts        |
|      | 5 Drops (0.0085 fl. oz.) |   | 2¾ cup (22 fl.oz.) |
|      | 1 Tsp (0.17 fl. oz.)     |   | 3½ Gallons         |
| 50   | 1 Part                   |   | 1,280 Parts        |
|      | 5 Drops (0.0085 fl. oz.) |   | 10 fl. oz.         |
|      | 1 Tbsp (0.5 fl. oz.)     |   | 5 Gallons          |
|      | ¼ Cup (2 fl. oz.)        |   | 20 Gallons         |
| 75   | 1 Part                   |   | 765 Parts          |
|      | 1 Tsp (0.17 fl. oz.)     |   | 1 Gallon           |
|      | ¼ Cup (2 fl. oz.)        |   | 12 Gallons         |
| 100  | 1 Part                   |   | 640 Parts          |
|      | 1 Tbsp (0.5 fl. oz.)     |   | 2½ Gallons         |
|      | ¼ Cup (2 fl. oz.)        |   | 10 Gallons         |
|      | ½ Cup (4 fl. oz.)        |   | 20 Gallons         |
|      | ¾ Cup (5.36 fl. oz.)     |   | 26 ½ Gallons       |
|      | 2½ Gallons (320 fl. oz.) |   | 1,600 Gallons      |
| 200  | 1 Part                   |   | 320 Parts          |
|      | 2 Tsp (0.34 fl. oz.)     |   | 96 fl. oz.         |
|      | 1 Tbsp (0.5 fl. oz.)     |   | 1¼ Gallons         |
|      | 2 Tbsp (1.0 fl. oz.)     |   | 2½ Gallons         |
|      | 5 Tbsp (2.5 fl. oz.)     |   | 6 Gallons          |
|      | ¼ Cup (2 fl. oz.)        |   | 5 Gallons          |
|      | ½ Cup (4 fl. oz.)        |   | 10 Gallons         |
|      | ¾ Cup (5.36 fl. oz.)     |   | 13 Gallons         |
|      | 2½ Gallons (320 fl. oz.) |   | 850 Gallons        |

| PPM*   | Quantity of Bleach       | + | Quantity of Water        |
|--------|--------------------------|---|--------------------------|
| 400    | 1 Part                   |   | 160 Parts                |
|        | 1 Tsp (0.17 fl. oz.)     |   | 3½ Cups (28 fl. oz.)     |
|        | 3 ½ Tsp. (0.059 fl. oz.) |   | ¾ Gallon (96 fl. oz.)    |
|        | ¼ Cup (2 fl. oz.)        |   | 2 ½ Gallons              |
|        | ½ Cup (4 fl. oz.)        |   | 5 Gallons                |
|        | ¾ Cup (5.36 fl. oz.)     |   | 6 ½ Gallons              |
|        | 1 Cup (8 fl. oz.)        |   | 10 Gallons               |
| 600    | 1 Part                   |   | 110 Parts                |
|        | 1 Tbsp (0.5 fl. oz.)     |   | 7 Cups                   |
|        | 2 Tbsp (1 fl. oz.)       |   | 7/8 Gallon (112 fl. oz.) |
|        | ¼ Cup (2 fl. oz.)        |   | 1¼ Gallons               |
|        | ½ Cup (4 fl. oz.)        |   | 3¼ Gallons               |
|        | ¾ Cup (5.36 fl. oz.)     |   | 4½ Gallons               |
|        | 7¼ Gallons (992 fl. oz.) |   | 850 Gallons              |
| 800    | 1 Part                   |   | 80 Parts                 |
|        | 2 Tbsp (1 fl. oz.)       |   | 10 Cups                  |
|        | ¼ Cup (2 fl. oz.)        |   | 1¼ Gallons               |
|        | ½ Cup (4 fl. oz.)        |   | 2½ Gallons               |
|        | ¾ Cup (5.36 fl. oz.)     |   | 3¼ Gallons               |
| 1,200  | 1 Part                   |   | 56 Parts                 |
|        | 1 Tbsp (0.5 fl. oz.)     |   | 3½ Cups (28 fl. oz.)     |
|        | ¼ Cup (2 fl. oz.)        |   | ¾ Gallon (96 fl. oz.)    |
|        | ½ Cup (4 fl. oz.)        |   | 1¼ Gallons               |
| 2700   | 1 Part                   |   | 24 Parts                 |
|        | ½ Cup (4 fl. oz.)        |   | ¾ Gallon                 |
|        | 1 Cup (8 fl. oz.)        |   | 1½ Gallons               |
| 5,000  | 1 Part                   |   | 12 Parts                 |
|        | 10 fl. oz.               |   | 1 Gallon                 |
|        | 1 Gallon (128 fl. oz.)   |   | 12 Gallons               |
| 10,000 | 1 Part                   |   | 5½ Parts                 |
|        | 3 Cups (24 fl. oz.)      |   | 1 Gallon                 |
|        | 1 Gallon (128 fl. oz.)   |   | 5½ Gallons               |

[\*]PPM (Parts Per Million) of available chlorine (approximate)

[To ensure efficacy, test using chlorine test strips and adjust solution to desired ppm chlorine level.]

**DILUTION TABLE: PPM (Parts Per Million) Available Chlorine.**

Check chlorine concentration with standard test strip

½ fl. oz. [of] this product (1 tablespoon) + ¼ gallon water = 200 ppm (approx 1:320 Dilution)

10 fl. oz. [of] this product (1¼ cup) + 1 gallon water = 5000 ppm

[other ppm levels/dilutions can be added from the table above]

\_\_\_\_\_ tbsp. [cup] [fl. oz.] of this product in \_\_\_\_\_ gallon(s) of water is equivalent to approximately \_\_\_\_\_ parts per million (ppm) available chlorine.