



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

JUN 22 2010

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Christina Griffin, Agent  
KIK International Inc.  
12510 Prosperity Drive, Suite 160  
Silver Spring, MD. 20904

Subject: Amendment dated: February 19, 2010  
2% Sodium Hypochlorite Spray  
EPA Registration 70271-15

Dear Ms. Griffin:

The Agency has reviewed your amendment submitted in accordance with continuing registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as amended, and determined the action acceptable with the following comment:

- Change the word "transversed" to "traversed" on page 7.

In summary, the efficacy data you provided support the additional sanitizer and disinfection claims. A copy of our review, D375253, is enclosed.

A stamped copy of the labeling accepted with conditions is enclosed. Submit one copy of your final printed labeling before distributing or selling the product bearing the revised labeling. Should you have any questions or comments concerning this letter, please call Tom Luminello at (703) 308-8075.

Sincerely,

A handwritten signature in black ink that reads "Wanda Y. Henson".

Wanda Y. Henson  
Acting Product Manager 32  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

# 2% Sodium Hypochlorite Spray

Active Ingredient:  
 Sodium Hypochlorite.....2.0%  
 Other Ingredients .....98.0%  
 Total.....100.0%

(Yields 1.90% available chlorine)

**KEEP OUT OF REACH OF CHILDREN**

# CAUTION

Eye Irritant

**SEE BACK PANEL FOR PRECAUTIONARY STATEMENTS**

NET CONTENTS \_\_\_\_\_  
 BATCH CODE \_\_\_\_\_

*[The following may appear in any appropriate place on the label:]*

Manufactured by:  
 KIK International, Inc.  
 33 Macintosh Blvd  
 Concord, Ontario L4K4L5 Canada

*[For information: [phone number]] [website address] [e-mail address]*

|                           |                            |
|---------------------------|----------------------------|
| Santa Fe Springs CA 90670 | EPA Est. No. 70271-CA-002  |
| Denver CO 80207           | EPA Est. No. 70271-CO-001  |
| Auburndale FL 33823       | EPA Est. No. 70271-FL-001  |
| Hampton GA 30228          | EPA Est. No. 70271-GA-001  |
| Houston TX 77054          | EPA Est. No. 70271-TX-001  |
| Salem VA 24153            | EPA Est. No. 70271-VA-001  |
| Tacoma WA 98421           | EPA Est. No. 70271-WA-001  |
| Concord ON CN L4K 4L5     | EPA Est. No. 70271-CAN-001 |
| Etobicoke ON CN M9W 4J6   | EPA Est. No. 70271-CAN-002 |

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

EPA Reg. No. 70271-15

**ACCEPTED**  
 with **COMMENTS**  
 in EPA Letter Dated:  
**JUN 22 2010**

Under the Federal Insecticide,  
 Fungicide and Rodenticide Act as  
 amended, for the pesticide,  
 registered under EPA Reg. No.

70271-15

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wear protective gloves for repeated use.

**FIRST AID:** Call a Poison Control Center or doctor immediately 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 immediately with plenty of water for 15-20 minutes.

*[Optional: may be included if desired but not required based on toxicity studies:]*

**If inhaled:** Move to fresh air immediately and restore breathing. If breathing problems develop, call 911 then give a mouth to mouth resuscitation. **If swallowed:** DO NOT INDUCE VOMITING. Have person drink a glassful of water if able to swallow. Do not give anything by mouth to unconscious person.]

*[Complete Environmental Hazards statement is required only for containers of five gallons or larger (PR notice 95-1); Use only the heading and first sentence for smaller than 5 gallons]*

#### 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.

#### Physical or 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, old porcelain, or worn plastic laminate may cause pitting or discoloration.

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**[DISINFECTING / SANITIZING CLAIMS:** Choose from the following as appropriate, location is optional.]

[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:

**DISINFECTANT:**

**FUNGICIDAL**

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

**BACTERICIDAL**

Escherichia coli (E. coli) [ATCC 11229]  
Pseudomonas aeruginosa (pseudomonas) [ATCC 15442]  
Salmonella enterica (salmonella) [ATCC 10708]  
Staphylococcus aureus (staph) [ATCC 6538]  
Methicillin Resistant Staphylococcus aureus (MRSA) [ATCC 33592]  
Streptococcus pyogenes (strep) [ATCC 12344]

**VIRUCIDAL\*\*\* [link viruses with asterisks as shown]**

Avian Influenza A virus (Avian Flu Virus) [ATCC VR-2072]  
Influenza A virus [ATCC VR-544]  
H1N1 Influenza A virus [ATCC VR-333, Strain A/Swine/Iowa/15/30]  
Rhinovirus type 37 (viruses that cause colds and flu) [ATCC VR-1147, Strain 151-1]

**SANITIZER:**

[full strength 30 seconds, Toilet bowl [diluted 96-oz. water] 5 minutes]  
Staphylococcus aureus (staph) [ATCC 6538]  
Enterobacter [ATCC 13048]

- Antibacterial
- Antibacterial Cleaner
- Antifungal
- Bactericidal [Bactericide]
- Cleans [and disinfects] [or as it disinfects]
- Disinfects [Disinfectant] [Disinfecting]
- Disinfectant Cleaner
- Disinfects as it Cleans
- Disinfects [and] [Sanitizes] [and] [Deodorizes] [around the house]
- Disinfects [, Sanitizes] [, Eliminates mold & mildew†] and Deodorizes by killing most germs\* and their odors
- Disinfect, Deodorize [and Kill 99.9% of Germs\*] [on counters] in [sinks] [showers] [bathtubs] [and] [on vinyl and glazed tile floors]
- Fights germs\* [and odors]
- Fungicide† [or] Fungicidal†
- Germ fighting formula
- Germicide\* [or] Germicidal\*
- [Helps] prevent[s] the spread of the cold and flu virus†† [in your home] –and/or- [office]
- Kills Athlete's Foot Fungus††† [in 5 minutes]
- Kills [-or- Eliminates] [-or- Removes] [99.9% of] [Common Household] germs\*
- Kills [-or- Eliminates] [-or- removes] [99.9% of] [germs\*] [-or- bacteria\*\*] [-or- viruses\*\*\*] [commonly found in] [bathrooms] [-or- homes] [-or- households] [-or- kitchens] [-or- laundry] [-or- offices]
- Kills 99.9% of germs in your toilet bowl†† †† Sanitizes: kills staphylococcus aureus (staph) & enterobacter
- Kills Avian Flu Virus [or Avian Influenza A virus] on pre-cleaned surfaces
- Kills [eliminates] MRSA †††
- Kills [eliminates] Flu Virus †

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EPA Letter Dated:  
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Kills germs\* while it cleans  
 Kills odor causing germs\*  
 Kills viruses that cause colds and flu††  
 Kills virus that causes the flu†  
 Kills H1N1 [Influenza A] virus [(formerly called swine flu)]  
 Kills Avian flu virus (Avian Influenza A virus) on pre-cleaned surfaces  
 Mildewcidal [or] Mildewicide  
 One step cleaner and disinfectant  
 Removes Stains and Disinfects[!]  
 Powerful germ\* killer  
 Protection against germs\*  
 Sanitizing [sanitizer] [sanitizes]  
 The smart way to disinfect  
 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)."  
 Virucidal\*\*\* [Virucide\*\*\*\*]

[Specific organisms may be omitted from claims as appropriate:]

\* [Kills germs:] *Staphylococcus aureus*, *Streptococcus pyogenes*, *Salmonella enterica*, *Trichophyton mentagrophytes* (Athlete's foot fungus), *Escherichia coli*, Influenza A virus, H1N1 Influenza A virus, Rhinovirus type 37, Avian Influenza A virus (Avian Flu), *Aspergillus brasiliensis* (mildew), *Pseudomonas aeruginosa*, Methicillin Resistant *Staphylococcus aureus* (MRSA)

\*\* *Escherichia coli*, *Pseudomonas aeruginosa*, *Salmonella Enterica*, *Staphylococcus aureus* (staph), Methicillin Resistant *Staphylococcus aureus* (MRSA), *Streptococcus pyogenes* (strep)

\*\*\* Avian Influenza A virus (Avian Flu), Influenza A virus, H1N1 Influenza A virus, Rhinovirus type 37

† Trichophyton mentagrophytes (Athlete's foot fungus) & *Aspergillus brasiliensis* (mildew)

†† Sanitizes: *Staphylococcus aureus* & Enterobacter

††† 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

‡‡‡ Trichophyton mentagrophytes (Athlete's foot fungus)

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**[GENERAL / CLEANING CLAIMS: Choose from the following as appropriate, location is optional]**

All Purpose Cleaner with Bleach for Kitchen(s) &amp; Bathroom(s)

Avoid contact with [clothes] [fabric] [bare wood] [rubber] [carpet] [painted / paper surfaces] [non-porous vinyl surfaces] [finished floors]

Bleach for kitchen and bath

Bleaches [away] [out] [tough] stains [in the] Bathroom [or] Kitchen

[Breaks down] [Deactivates] [Destroys] [Penetrates] [Reduces] dust mite matter -or- particles, cockroach matter -or- particles and pet dander allergens [found in dust]

Cleans everyday kitchen messes like dirt, grease and food stains

Cleans greasy dirt better than bleach alone

Cleans [and/or] [Shines] [Disinfects] [Deodorizes] [Fresh Clean Scent] [Clean Fresh Scent] [around the house]

Contains no phosphorus

Check to make sure bottle is always tightly capped

Cleans with the power of bleach

Commercial/Institutional Use

Contains a powerful cleaner plus bleach

Contains cleaning agents [and/or] [cleaners] [surfactants] [soap and detergents]

Contains no phosphorus

Deep Down Clean!

Deodorizes [Deodorizer] [Deodorizing]

Deodorizes and has a clean, fresh scent

Do not break open - to be sold as a [two] -or- [three] -or- [four] pack.

Do not drop

Do not use on [Acetate] [Leather] [Spandex] [Wool] [Mohair] [non-fast colors] [eating / cooking utensils] [glasses / dishes] [cookware] [steel] [aluminum] [silver] [chipped enamel]

Eliminates-or- [Removes] odors

Effective

Exercise care in handling

Foam holds longer [than spray]

Foam -or- FoamAction [option -or- setting]

Foam or spray

For a clean[er], fresh[er] household

Formulated for Foodservices Application

Keep [product] [bottles] upright [and tightly capped] [at all times]

Not harmful to septic systems

Power of bleach [without the [strong] smell]

Product should be carried and stored in an upright position to avoid spillage

Removes [Household] Allergens<sup>3</sup>

Removes [and/or] [cleans] [bleaches out] [soap scum] [and/or] [bathroom dirt] [and/or] [stains] [toilet bowl ring] [bathtub ring] [hard water deposits] [mineral deposits]

Removes [and/or] [cleans] [bleaches out] [food] [and/or] [juice] [coffee] [tea] [stains]

Removes [and/or] [cleans] [bleaches out] mold [and/or] mildew [stains]

Removes [and/or] [cleans] [tough] [and/or] greasy kitchen [dirt] [and/or] grime

Removes mildew stains and soap scum

Removes tough [food stains] [and/or] [mildew stains] [soap scum]

Removes [tough] [spots and] stains [on contact]

Removes tough stains, grease and dirt

The bleach in this product breaks down almost entirely to salt and water [and/or] [This product is] suitable for septic [systems] [and/or] wastewater systems [or] treatment plants

The two job cleaner

This product can be used on plastic outdoor furniture

This product cleans, kills germs, &amp; removes dust mite matter -or- particles, cockroach matter -or- particles, pet dander

This product complies with consumer product volatile organic compound (VOC) laws.

Tough on mold [and/or] mildew

Tough on [tough] stains

Use carefully - This Product Contains Bleach

Value size [2] -or- [3] -or- [4] pack

Wear gloves when cleaning for prolonged periods

Whitens [and removes [mold] stains] [and] [mildew stains]

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This is a Federal Insecticide,  
Fungicide and Rodenticide Act as  
regulated under EPA Reg. No.

70271-15

**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)]

- |                          |                |                       |                           |
|--------------------------|----------------|-----------------------|---------------------------|
| Daycare Center[s]        | Diners         | Eating Establishments | Farm[s] – Dairy [Dairies] |
| Food Processing Plant[s] | Foodservice    | Fitness Centers       | Gym Clubs                 |
| Home[s]                  | Hotel[s]       | Household[s]          | Institution[s]            |
| [Pet] Kennel[s]          | Locker Room[s] | Restaurant[s]         | School[s]                 |
| Veterinary Premises      |                |                       |                           |

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**DIRECTIONS FOR USE**

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

For sensitive skin or prolonged use, wear gloves.

[Use one or more of the following use directions as appropriate; may be used in any order.]

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for use pesticides registered under EPA Reg. No. 70271-15

**CLEANING, DEODORIZING, STAIN REMOVAL:** [Select one or more sets of directions as appropriate]

**To clean [and remove stains]:** Use full strength or mix 1 cup of this product in 1 gallon of water. Apply with a sponge, mop or rag. Rinse or wipe clean.

**To clean floors:** Mop floor with 1 cup of this product mixed with 1 gallon of water. Rinse for best shine.

**Toilet bowls:** Flush toilet and add ¼ cup of this product to bowl water. Brush thoroughly to wet all surfaces, including under the rim. Let stand 5 minutes before flushing.

**[Spray application:]** [Turn nozzle [counter] clockwise to [open -or- spray -or- foam].] Spray product 4-6 inches from surface until thoroughly wet. [Rinse or] wipe clean.

**ALLERGENS:** [Select one or more sets of directions as appropriate]

**To [clean and] remove specified allergens<sup>3</sup>:** Use full strength or mix 1 cup of this product in 1 gallon of water. Apply with a sponge, mop or rag. Rinse or wipe clean.

**[Spray application]** [Turn nozzle [counter] clockwise to [open -or- spray -or- foam].] Spray product 4-6 inches from surface until thoroughly wet. [Rinse or] wipe clean.

**Allergens<sup>3</sup>:**

- Dust mite matter -or- particles
- Cockroach matter -or- particles
- Pet dander

**DISINFECTION:** [Select one or more sets of directions as appropriate]

**DISINFECTION:** [To [clean and] disinfect hard, non-porous surfaces]:

Apply [this product] with sponge, mop, or rag to wet surface completely. Let stand 1 minute. [Rinse or] wipe clean. For heavily soiled surfaces, preclean before disinfecting.

**[Spray application:]** [Turn nozzle [counter] clockwise to [open -or- spray -or- foam].] Spray product 4-6 inches from surface until thoroughly wet. Let stand 60 seconds [or 1 minute]. [Rinse or] wipe clean. For heavily soiled surfaces, preclean surface before disinfecting.

**[For [use as a spray for] Avian Influenza A virus:** This product should be used as a spray only for surfaces which are not conducive to treatment by immersion or excess liquid (e.g., cages, equipment tables, lab benches, faucets handles, door knobs, and similar "high touch" surfaces).]

**KITCHEN** [Use sites]: Hard non porous [surfaces] [including]: Appliances, countertops, faucets, floors, freezers, garbage disposals, glass, glazed ceramic tile, linoleum, microwave ovens, painted woodwork, refrigerators, sinks, stoves, stove tops, trash cans, trash bins, vinyl, walls, work surfaces

**KITCHEN:** [To] [clean and] disinfect hard, nonporous surfaces [Choose Use Site from the above list]:

Apply [this product] with sponge, mop, or rag to wet surface completely. Let stand 1 minute. [Rinse or] wipe clean. For heavily soiled surfaces, preclean before disinfecting.

**[Spray application:]** [Turn nozzle [counter] clockwise to [open -or- spray -or- foam].] Spray product 4-6 inches from surface until thoroughly wet. Let stand 60 seconds [or 1 minute]. [Rinse or] wipe clean. For heavily soiled surfaces, preclean surface before disinfecting.

**BATHROOM<sup>2</sup> [Use Sites]:** Hard non porous [surfaces] [including]: Bathtubs, countertops, faucets, floors, glazed ceramic tile, glazed porcelain, showers, shower walls, sinks, vinyl, walls

**BATHROOM: [To] Disinfect [and deodorize] hard, nonporous surfaces** [Choose Use Site from the above list]:

Apply [this product] with sponge, mop, or rag to wet surface completely. Let stand 1 minute. [Rinse or] wipe clean. For heavily soiled surfaces, preclean before disinfecting.

**[Spray application]:** [Turn nozzle [counter] clockwise to [open -or- spray -or- foam].] Spray product 4-6 inches from surface until thoroughly wet. Let stand 60 seconds [or 1 minute]. [Rinse or] wipe clean. For heavily soiled surfaces, preclean surface before disinfecting.

**SANITIZING:** [Select one or more sets of directions as appropriate]

**[To [clean and] Sanitize nonfood hard, nonporous surfaces]:**

Apply [this product] with sponge, mop, or rag to wet surface completely. Let stand 30 seconds. [Rinse or] wipe clean. For heavily soiled surfaces, preclean surface before sanitizing.

**[Spray application]:** [Turn nozzle [counter] clockwise to [open -or- spray -or- foam].] Spray product 4-6 inches from surface until thoroughly wet. Let stand 30 seconds. [Rinse or] wipe clean.

**Toilet Bowls:** To sanitize and deodorize pre-cleaned toilet bowls, use 1 1/2 cup of this product.

1. Flush, pour in bleach – swab with brush, making sure to get under the rim, and
2. Let stand for 5 minutes.
3. Flush. DO NOT use with bowl cleaners or any other household chemicals.

**[FUNGI AND] MOLD AND MILDEW:** [Select one or more sets of directions as appropriate]

Kills mold and mildew [in 5 minutes]

Kills Athlete's Foot Fungus [in 5 minutes]

**To [clean and] kill fungi [and/or] mold [and/or] mildew [on hard, nonporous surfaces]:**

Apply [this product] with sponge, mop, or rag to wet surface completely. Let stand 5 minutes. [Rinse or] wipe clean. For heavily soiled surfaces, preclean before disinfecting.

**[Spray application]:** [Turn nozzle [counter] clockwise to [open -or- spray -or- foam].] Spray product 4-6 inches from surface until thoroughly wet. Let stand 5 minutes. [Rinse or] wipe clean. For heavily soiled surfaces, preclean surface before disinfecting.

ACCEPTED  
with COMMENTS  
Letter Dated:

**REFILL**

**[Refill only with this product]**

**To Refill [Spray Bottles]:**

1. **Remove:** Remove trigger sprayer [or cap] from empty bottle.
2. **Pour:** Unscrew cap on refill and pour contents directly into empty bottle.
3. **Use:** Replace trigger sprayer and use as you normally would.

**[Alternate language:]**

[Remove trigger sprayer from empty bottle,] unscrew cap and transfer your trigger sprayer to this bottle.

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Registered under EPA Reg. No. 70271-15

traversed

**[Use one or more of the following headings:]**

**[Veterinary Clinics] [Animal Life Science Laboratory] [Zoos] [Pet Shops] [Kennels] [Breeding and Grooming Establishments] [Animal Housing Facilities] [Poultry houses] [Hatcheries]:** [Kills Avian Influenza A virus]. For cleaning and disinfecting hard, non-porous surfaces: equipment, utensils, instruments, cages, kennels, stables, and catteries. Remove all 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 animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with potable water. Saturate surfaces with this product and let stand for 1 minute. Drain and rinse with potable water. 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 and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed and then rinsed. All treated feed/water bowls, racks, troughs, automatic feeders, fountains, and waterers must be rinsed with potable water before reuse.

**STORAGE AND DISPOSAL**

*[For non refillable container:]*

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 or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. **Non refillable container.** Do not re-use or refill this container. Offer for recycling if available or place in trash collection. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

*[OR:*

*Alternate wording for refillable container:]*

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 or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. **Refillable container.** Refill this container with this product only. Do not re-use this container for any other purpose. Offer container for recycling if available or place in trash collection. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

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