

85290-4

3/31/2010

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Mr. Rich Pratt  
Director of Marketing for,  
PMX Industries, Inc.  
5300 Willow Creek Drive  
Cedar Rapids, IA 52404

MAR 31 2010

Subject: MicroGuard IV  
EPA Registration Number 85290-4  
Your Amendment Dated January 26<sup>th</sup>, 2010  
EPA Received Date February 5<sup>th</sup>, 2010

The amendment submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, FIFRA, as amended, to revise and update the product labeling as per the request of the Department of Pesticide Regulation of California, is acceptable.

A stamped copy of the labeling is enclosed.

If you have any questions, please contact Karen M. Leavy-Munk at (703)-308-6237.

Sincerely,

A handwritten signature in black ink that reads "Karen M. Leavy-Munk".

Marshall Swindell  
Product Manager 33  
Regulatory Management Branch I  
Antimicrobial Division(7510P)

**MicroGuard IV™**

Laboratory testing has shown that when cleaned regularly:

[MicroGuard IV™ surfaces continuously reduce bacterial\* contamination, achieving 99.9% reduction within two hours of exposure.]

[MicroGuard IV™ surfaces kill greater than 99.9% of Gram-negative and Gram-positive bacteria\* within two hours of exposure.]

[MicroGuard IV™ surfaces deliver continuous and ongoing antibacterial\* action, remaining effective in killing greater than 99.9% of bacteria\* within two hours.]

[MicroGuard IV™ surfaces kill greater than 99.9% of bacteria\* within two hours, and continue to kill 99% of bacteria\* even after repeated contamination.]

[MicroGuard IV™ surfaces help inhibit the buildup and growth of bacteria\* within two hours of exposure between routine cleaning and sanitizing steps.]

\* Testing demonstrates effective antibacterial activity against *Staphylococcus aureus*, *Enterobacter aerogenes*, Methicillin-Resistant *Staphylococcus aureus* (MRSA), *Escherichia coli* O157:H7, and *Pseudomonas aeruginosa*.

The use of a MicroGuard IV™ surface is a supplement to and not a substitute for standard infection control practices; users must continue to follow all current infection control practices, including those practices related to cleaning and disinfection of environmental surfaces. The MicroGuard IV™ surface material has been shown to reduce microbial contamination, but it does not necessarily prevent cross contamination.

\*\*\*\*\*

Active Ingredient:	
Copper	73.0%
Other	27.0%
Total	100%

ACCEPTED  
with COMMENTS  
EPA Letter Dated:

MAR 31 2010

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 85290-4

Net Contents: \*\*\*\*

EPA Registration No. 85290-4  
EPA Establishment No. 85290-IA-001  
Manufactured by: PMX Industries, Inc, 5300 Willow Creek Dr, Cedar Rapids, IA 52404

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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.

[The directions in bracketed text below may be included in an insert. If so, there will be a statement to see the insert for additional directions for use of the product.]

[Directions for Use in the insert also may include installation and operation instructions, user manuals, and similar instructional materials appropriate for the end use product. No additional pesticidal claims will be made as part of these materials.]

**Proper Care and Use of MicroGuard IV™:** The use of MicroGuard IV™ does not replace standard infection control procedures and good hygienic practices. Antimicrobial MicroGuard IV™ surfaces must be cleaned and sanitized according to standard practice. Health care facilities must maintain the product in accordance with infection control guidelines; users must continue to follow all current infection control practices, including those practices related to disinfection of environmental surfaces.

MicroGuard IV™ surfaces may be subject to recontamination and the level of active bacteria at any particular time will depend on the frequency and timing of recontamination and cleanliness of the surface (among other factors). In order for the MicroGuard IV™ surface to have proper antimicrobial effect, the product must be cleaned and maintained according to the directions included on this label.

**This product must not be waxed, painted, lacquered, varnished, or otherwise coated.**

Routine cleaning to remove dirt and filth is necessary for good sanitation and to assure the effective antibacterial performance of the MicroGuard IV™ surface. Cleaning agents typically used for traditional touching surfaces are permissible; the appropriate cleaning agent depends on the type of soiling and the measure of sanitization required. [Normal tarnishing or wear of MicroGuard IV™ surfaces will not impair the antibacterial effectiveness of the product.]

This product can not be used for any direct food contact or food packaging uses.

[MicroGuard IV™ may be used in hospitals, other healthcare facilities, and various public, commercial, and residential buildings for the non-food contact surfaces listed below.] [The following statement will appear on the label if the use involves potential exposure to outdoor conditions: Surfaces that may be exposed to outdoor environmental conditions (e.g., handrails, shopping carts, child seats and ATM machines) are not representative of indoor laboratory test conditions, and therefore, may impart reduced efficacy if not cleaned when visibly soiled.]

#### Healthcare Facilities

- o Bedrails, footboards
- o Over-bed tables
- o Bed-side tables in hospitals, extended care facilities, senior housing etc. (knobs, pulls, handles; surfaces)
- o Handrails, (corridor/hallways) ( Senior housing), automatic door push plates
- o Stair rails, handrails, tubular railing, and supports, rail fittings T's, elbows and brackets
- o Bedrails, assistance rails,
- o Toilet safety rails
- o Carts
  - Hospital carts (table surfaces, handles, legs)
  - Computer carts
  - Record carts
  - Phlebotomy carts

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- Other Carts (tables/surfaces, shelving, railings, handles, pulls)
  - o Equipment carts (horizontal surfaces, frames, handles)
  - o Door push plates, kick plates, mop plates, stretcher plates
  - o Sinks: spigots, drains, sinks themselves
  - o Faucet: handles, spigot, drain control lever
  - o Water fountains: bubbler head, drain strainer, handle
  - o Alcohol sanitizer dispenser, handle
  - o Paper towel holders, facial tissue holders, toilet paper holders
  - o Air hand dryer, controls and push buttons on air hand dryers
  - o Hydrotherapy tanks (whirlpool tanks):
    - shells, covers, headrests, drain fittings (outer surfaces without water contact)
  - o Door handles, doorknobs (outer touch surfaces)
  - o Grab bars in bathrooms showers and bathtubs
  - o Panic bars on emergency room doors
  - o Towel bars
  - o Showerheads
  - o Countertops and tabletops (non-food use only)
  - o Hinges, locks, latches, and trim
  - o Door stops, door pulls, and protector guards
  - o Toilet and urinal hardware, levers, push buttons
  - o Toilet seat inlay for lifting of seat
  - o Closures
  - o Vertical locking arms
  - o Vertical cover guards
  - o Protection bars
  - o Light switches, switch plates
  - o Visitor chairs: armrests, metal frames
  - o Thermostat covers, control knobs and wheels
  - o Telephone handsets and surfaces ( housings), keypad
  - o Kitchen surfaces (non-food contact only):
    - table tops, counter tops, handles (microwave, refrigerator, stove), cabinet doors, cabinet hinges, pulls, backsplash, hoods, control knobs (appliances, fans)
  - o Floor tiles
  - o Ceiling tiles (non-porous)
  - o Wall tiles
  - o Instrument handles
    - Medical equipment knobs, pulls and handles for:
      - Drug delivery systems
      - Monitoring systems
      - Hospital beds
      - Office equipment
      - Operating room equipment
      - Stands and fixtures
    - Types of knobs: e.g., Prong, fluted, knurled, push/pull, T-handle, tapered, and ball knobs
  - o Intravenous (IV) poles, bases, hangers, clips
  - o Trays (instruments, non-food contact)
  - o Pans (bed)
  - o Walkers, wheelchair handles, and tubular components
  - o Computer keyboards: keys, housings, computer mouse surfaces
  - o Exercise and rehabilitation equipment, handles, bars
  - o Physical therapy equipment: physical therapy tables, treatment chairs and portable taping tables
  - o Chairs (shower chairs, patient chairs, visitor chairs): rails, backs, legs, seats
  - o Lighting products:
    - X-ray illuminators, operating rooms, patient examination rooms, surgical suites, and reading lamps for hospital rooms and assisted living facilities etc. Components can include bases, arms, housings, handles, hinges)
  - o Headwall systems:
    - the unit themselves, outlet covers, knobs and dials, lighting units (lamp housings and adjustable arms), CRT monitors with rotating knobs and levers and adjustments. Baskets, monitor housings, knobs, baskets, tables, IV poles
  - o Critical care cart: Table top, drawer, drawer pull, lock, copper wire baskets for storage of equipment and charts.
  - o Bedside lavatory:

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- sink, faucet, handles, drawer pulls, toilet seat, toilet seat cover, toilet handle, door and cabinet facings, counter tops
- o Medical records: Chart holders, clipboards, filing systems
- o Storage Shelving: wire shelving etc. for medical supplies
- o Grab handles on privacy curtains
- o Lids of laundry hampers, trash canisters, and other containers

**Community Facilities (including various public and commercial buildings)**

- o Shopping cart handles, child seats, handrails
- o Cash registers: housing, keypads
- o ATM machines: keys, housing
- o Gym/Health club lockers, locker handles, locker shelving, trainers' tables,
- o Ice and water dispensers (outer surfaces without water contact)
- o Elevator: handrail, control panel, buttons, interior walls, floor tiles, exterior call button plate
- o Paper towel dispensers. Housing itself, (turn) handle, (push) handle
- o Soap holder
- o Soap dispenser (wall mounted): push bar and dispenser itself
- o Soap dispenser (sitting on counter): dispenser housing itself, push mechanism
- o Toilet paper dispenser (housing)
- o Windows (crank), Locking mechanism, pull handles
- o Window treatments (cord pulls), Venetian blinds (wands, cord pulls)
- o Jalousie Windows (crank)
- o Casement (cranks, levers, hinges)
- o Single and double-hung windows (locks and pulls)
- o Light switches, switch plates
- o Lids of laundry hampers, trash canisters, and other containers

**Residential Buildings (including homes, apartments, apartment buildings and other residences)**

- o Kitchen surfaces (non-food contact only):  
table tops, counter tops, handles (microwave, refrigerator, stove), cabinet doors, cabinet hinges, pulls, backsplash, hoods, control knobs (appliances, fans)
- o Bedrails, footboards
- o Handrails
- o Stair rails
- o Door push plates
- o Sinks: spigots, drains, sinks themselves
- o Faucet: handles, spigot, drain control lever
- o Paper towel holders, facial tissue holders, toilet paper holders
- o Door handles, doorknobs (outer touch surfaces)
- o Grab bars in bathrooms showers and bathtubs
- o Towel bars
- o Showerheads
- o Countertops and tabletops
- o Hinges, locks, latches, and trim
- o Door stops, door pulls, and protector guards
- o Toilet and urinal hardware, levers, push buttons
- o Toilet seat inlay for lifting of seat
- o Light switches, switch plates
- o Thermostat covers, control knobs and wheels
- o Telephone handsets and surfaces ( housings), keypad
- o Floor tiles
- o Ceiling tiles (non-porous)
- o Wall tiles
- o Computer keyboards: keys, housings, computer mouse surfaces
- o Exercise equipment, handles, bars
- o Windows (crank), Locking mechanism, pull handles
- o Window treatments (cord pulls), Venetian blinds (wands, cord pulls)
- o Jalousie Windows (crank)
- o Casement (cranks, levers, hinges)
- o Single and double-hung windows (locks and pulls)

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- o Television control knobs and buttons
- o Lids of laundry hampers, trash canisters, and other containers

**Other**

- o Play area equipment (indoor only):  
bars, handles, chains, push plates, handrails, stair rails and risers, wheels, knobs, flooring

**STORAGE AND DISPOSAL**

MicroGuard IV™ should be disposed in a responsible manner, including recycling.

**WARRANTY STATEMENT**

If used as intended, MicroGuard IV™ surfaces are wear-resistant and the durable antibacterial properties will remain effective for as long as the product remains in place and is used as directed.

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