



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

OCT 19 2006

Ag-Chem Consulting, Agent for  
Modec Inc.  
c/o 12208 Quinque Lane  
Clifton, VA 20124

Attention: Dr. Matthew W. Brooks

Subject: MDF-200 Bottle 1 (Part A)  
EPA Registration No. 80346-1  
MDF-200 Bottle 2 (Part B)  
EPA Registration No. 80346-2  
Amendment Application Date: April 21, 2006  
EPA Received Date: April 21, 2006

The amendment to add the microorganisms on had non-porous surfaces, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data or material required for registration/reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA sec.4 when the Agency requires all registrants of similar products to submit such data.

2. Make the following labeling changes

On page 3 of the proposed subject product labels, change  
"*Pseudomonas aeruginosa*" to read "*Pseudomonas aeruginosa*"

On page 6 of the proposed subject labels, change  
"*Staphylococcus aureus*, *Staphylococcus epidermidis*" to read "*Staphylococcus aureus*, *Staphylococcus epidermidis*" in the first paragraph.

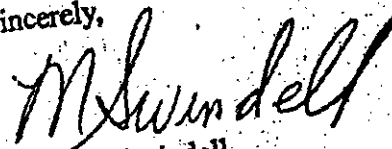
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

3. Submit two copies of your revised labeling before you release the product for shipment.

A stamped copy of the label is enclosed for you records.

If you have any question or comments concerning this letter, please contact me at (703) 308 6341 or Portia Jenkins at (703) 308-6230.

Sincerely,



Marshall Swindell  
Product Manager (33)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

Enclosure

3 8 9

**modec Inc.**  
**MDF-200 Part B**

**Modec Decon Formulation**  
**Antibacterial Disinfectant and Cleaner**

**Cleaner · Mildewstat**  
**Disinfectant · Deodorizer · Fungicide · Virucide**

**MDF-200 Part A - Active Ingredient:**

Alkyl (50% C <sub>14</sub> , 10% C <sub>16</sub> , 40% C <sub>12</sub> )	3.2%
Dimethyl benzyl ammonium chlorides	96.8%
Inert Ingredients:	
Total	100.0%

**MDF 200 Part B - Active Ingredient:**

Hydrogen Peroxide	7.95%
Inert Ingredients:	92.05%
Total	100.0%

**DANGER**

**KEEP OUT OF REACH OF CHILDREN.** Corrosive.  
Causes irreversible eye damage. Causes skin irritation.  
Harmful if inhaled. Do not get in eyes, on skin, or on  
clothing. Avoid breathing vapor or spray mist. Wear  
protective eyewear such as goggles, face shield or safety  
glasses. Wear chemical resistant gloves. Wash thoroughly  
with soap and water after handling and before eating,  
drinking, chewing gum, or using tobacco. Remove and  
wash contaminated clothing before reuse.

**SEE BACK PANEL FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS**

**NET CONTENTS:**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

**OCT 19 2006**

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

**80346-2**

## First Aid

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**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. Call a poison control center or doctor for further treatment advice.

**IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.

### NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

Modac's Decon Formula (MDF)  
is Commercially Manufactured  
using the Formula Licensed by



Sandia National Laboratories

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**Modac Decon Formulation  
Antibacterial Disinfectant and Cleaner**

Advanced Restoration, Remediation & Disinfectant System  
Coverage up to 500 square feet

Under the Federal Insecticide,  
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80346-2

Technology originally developed and patented by Sandia National Laboratories.  
A Serious Product for a Serious Problem

MDF 200 is Produced Commercially using the Formula Licensed by Sandia National  
Laboratories

**Foaming Action**

- Inhibits and Retards Growth of Mold, Mildew and Fungus.
- Shown to be effective against the pathogenic bacteria Staphylococcus aureus, Salmonella choleraesuis, and Pseudomonas aeruginosa
- Cleans & Controls Mold Growth on Porous and Non-Porous Surfaces
- Cleaner, Mildewstat, Fungicide, Disinfectant, and Deodorizer
- Used by Professionals in Schools, Hospitals, Homes, and Commercial Facilities

Before and After  
Photo plate 1

Photos of  
Before &  
After

Photos of  
Before &  
After

Photos of  
Before &  
After

Photos of  
Before &  
After

Photos of  
Before &  
After

Photo Plate 2

MDF 200 is a breakthrough product based on technology originally developed and patented by Sandia National Laboratories.

MDF 200 is commercially manufactured using the license from Sandia National Laboratories. MDF 200 kills mildew & fungus (such as those that cause Athlete's Foot) on hard nonporous surfaces and inhibits the growth of mold, mildew and fungal spores on wooden decks, cement, aluminum, wood siding and other porous and non-porous surfaces. This technology is used by professionals for remediation in hospitals, schools, homes and commercial facilities.

MDF 200 effectively cleans and disinfects all hard nonporous surfaces including those in basements and bathrooms as well as metal, plastic and ceramic tile.

6 8 9

MDF 200 cleans and inhibits the growth of mold and mildew on porous surfaces of fences, cement walkways, siding, wood, painted walls, metal, plastic, stucco, planters boxes, terracotta, and ceramic tile.

MDF 200 is an effective biocide that cleans and restores basements, bathrooms, fences, walkways and any other place mold grows.

#### STOPS MOLD COLD

Mold spores are ever-present in the environment and will grow when food and moisture are present.

**Professionals recommend appropriate eye and respiratory equipment be worn when undertaking mold abatement procedures.**

#### When Applied as an Aerosol

### Picture of Assembled Spray Container

**Photo Plate 3**

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**ASSEMBLY:** MDF 200 is a two part system. Fill empty mixing container with equal portions of Part A and Part B. Screw mixing container onto the spray-bridge (dip-tube side). Snap aerosol container onto the small end of spray-bridge making sure container is firmly seated.

**USE:** Depress round actuator tab of spray-bridge to dispense newly mixed solution.

**Note:** To prevent the possibility of spraying pure propellant from the aerosol container, do not allow liquid in mixing bottle to become empty during use. The combined liquid from Parts A & B remains active for 12 hours after mixing. Product must remain in contact with surface area for a minimum of 10 minutes.

Contents of aerosol container is under pressure. Do not puncture or incinerate container. Do not expose to heat, fire, sparks or flame. Do not store at temperatures above 120F.

Intentional misuse by intentionally or deliberately concentrating and inhaling contents can be harmful or fatal.

Remove stains from surfaces prior to mold and mildew treatment

MDF 200 may be used to clean surfaces. Spray liberally to coat surfaces and allow to remain wet for 30 minutes. Scrub surface with sponge to remove stains.

Mold Remediation Clean-up Methods

Prior to application of MDF 200, clean the affected area using one of the following or another preferred professional method.

Method 1: Wet Vacuum (in the case of porous material, some mold spores/fragments will remain in the material but will not grow if the material is completely dried).

Method 2: Damp-wipe surfaces with plain water or use a wood floor cleaner; scrub as needed.

Method 3: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

## **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

### **SURFACE CLEANING PROCEDURES**

Prior to application of MDF 200 as an antimicrobial agent, gross filth, heavy soil, blood and other bodily fluids must be thoroughly cleaned from surfaces and objects before application of this product. Blood and other bodily fluids should be autoclaved and disposed of according to local regulations and infectious waste disposal. Use appropriate personal protection when handling items exposed to blood and bodily fluids.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. The product is designed specifically as a general cleaner and disinfectant for use in homes, hospitals, and commercial facilities. It is formulated to disinfect hard, non-porous, inanimate environmental surfaces such as floors, walls, metal surfaces, stainless steel, porcelain, glazed ceramic tile, plastic surfaces, bathrooms, shower stalls, bathtubs, and cabinets. May be used in the kitchen on non-food contact surfaces. In addition, this product deodorizes areas that are hard to keep fresh smelling including garbage cans, basements, restrooms and areas prone to odors caused by microorganisms.

**MODEC DECON FORMULA – "MDF" is a binary (two part) system.**

**Before use, mix equal parts of MDF PART A and MDF PART B. Apply the newly mixed solution as a spray onto surfaces as directed below.**

**DISINFECTION, DEODORIZING AND CLEANING** - Prior to disinfection of surfaces, spray the mixture (Part A and Part B) onto the surface and allow to penetrate, and then clean all surfaces thoroughly. To disinfect surfaces reapply the mixture and allow to remain wet for ten minutes. No scrubbing is necessary. The product will not leave grit.

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**BACTERICIDAL ACTIVITY** - When used as directed, this product exhibits effective disinfectant activity against the organisms: *Staphylococcus aureus*, including *Methicillin-Resistant Staphylococcus aureus*, *Staphylococcus epidermidis*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, *Klebsiella pneumoniae*, *Proteus mirabilis*, *Vancomycin-Resistant Enterococcus faecalis* and *Enterobacter aerogenes*, **Escherichia coli** and **Escherichia coli (ESBL)**. **When used as directed, this product is virucidal against Influenza A and Influenza B virus.** This product meets the requirements for hospital use

**MILDEWSTAT** - To control mold and mildew on hard, non-porous surfaces, clean the surface to be treated, then spray with the product, making sure to wet completely. Let the surface air dry. Reapply as new growth appears.

**FUNGICIDAL ACTIVITY** - This product has been demonstrated to be fungicidal against *Trichophyton mentagrophytes*. Use as directed on hard, non-porous surfaces.

**MOLD CONTROL** - To control mold and mildew, clean the surface to be treated, then spray with the product, making sure to wet completely. Let the surface air dry. Clean surface and reapply as necessary.

**DEODORIZING** - Mix equal parts of MDF 200 PART A and MDF 200 PART B and apply to surfaces until they appear wet to eliminate odors. Allow product to air dry or surface to remain wet for at least 10 minutes.

**CONTACT TIME FOR ALL SURFACES** - Allow surface to remain wet for 10 minutes.

#### **Brush and Spray Applications**

For outdoor use on cement, aluminum and wood siding, wood decks and roofs to inhibit the growth of mold and mildew.

#### **Remove stains from surfaces prior to disinfection**

MDF-200 may be used to clean surfaces. Mix 4 ounces of MDF PART A and Part B into one gallon of water. Apply liberally to coat surfaces and allow to remain wet for 30 minutes. Scrub surface with sponge to remove stains.



**SPRAYING** - MDF" is a binary (two part) system. Mix equal parts of MDF PART A and MDF PART B directly into ULV spray equipment. Apply mixed product at a rate of 1 ounce to 100-sq. ft. of surface area. Allow surface to air dry or remain wet for at least 30 minutes.

**BRUSHING** - MDF" is a binary (two part) system. Mix equal parts of MDF PART A and MDF PART B. Apply mixed product at a rate of 1 ounce to 100-sq. ft. of surface area. Brush into surface. Allow surface to air dry or remain wet for at least 30 minutes. Rinse.

### **STORAGE AND DISPOSAL**

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

**STORAGE** — Store in a dry place no lower in temperature than 50°F or higher than 120°F.

**CONTAINER DISPOSAL** — Do not reuse empty container. Rinse empty container with water. Plastic containers may be disposed of in a sanitary landfill, incinerated, or if allowed by local authorities, by burning. If burned, stay out of smoke. For containers 1 gallon or more: Do not reuse empty container (bottle, can, and bucket). Wrap container and put in trash.

**PESTICIDE DISPOSAL** — Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinse is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your Safe Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

EPA REG. NO. 80346- 1  
EPA REG. NO. 80346- 2  
EPA EST. NO. 65001-CO-01

(Part A)  
(Part B)

US. Patent No. 6,566,574 B1    Made in USA

Manufactured by Modec, Inc. - 4725 Oakland Street  
Denver, Colorado 80239 - 800-967-7887  
1-800-967-7887 - [www.deconsolutions.com](http://www.deconsolutions.com)  
[info@deconsolutions.com](mailto:info@deconsolutions.com)

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