FEB - 6 1989

Spartan Chemical Company, Inc. 110 North Westwood Avenue Toledo, OH 43607

Attention: Thomas J. Mitchell

Gentlemen:

Subject: DMQ

EPA Registration No. 5741-20 Your Amended Application Dated April 29, 1988

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable provided that you:

- 1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling.
 - a. Refer to the enclosed Eff: cacy Evaluation and Technical Efficacy Review II, and revise your labeling in accordance with the labeling comments outlined there.
 - b. Refer to the enclosed document "Label Requirements for Antimicrobial Pesticides Used on Eard Surfaces Against HIV-1 (AIDS Virus)" for EPA's current labeling policy for efficacy claims. Your labeling must be revised in accordance with the requirements outlined in this policy notice.
 - c. Revise the referral statement to read "See side panel for additional precautionary statements."
 - d. Revise the Storage and Disposal section in accordance with PR Notice 83-3.
 - e. Delete the word "milk."
- Submit five (5) copies of your final printed labeling before you release the product for shipment.

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Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

John H. Lee Product Manager (31) Antimicrobial Program Branch Registration Division (TS-767C)

Enclosures

DRAFT Reg no: 5741-20

SUBMITTED 4-29-88



... Damp Mop **Neutral Disinfectant Cleaner** Kills the AIDS Virus HIV-I

ACTIVE INGREDIENT: n-alkyl (C14-50%, C12-40%, C14-10%) Non-alkaline germicidal cleaner concentrate specially designed to clean and disinfect high gloss floors!

Bactericide/Fungicide*/Virucide**

*Kills the athlete's foot fungl, Trichophyton mentagrophytes. **Kills the AIDS Virus HIV-I, kills Herpes simplex Type 2 and influenza Type A / Hong Kong viruses.

KEEP OUT OF REACH OF CHILDREN DANGER

See side panel for additional precautions.

For institutional and industrial Use Only Spartan Chemical Co., Inc., 110 N. Westwood Ave., Toledo, Ohio 43607 Net Contents: 1 U.S. Gallon/3.79 Liters

EPA Reg. No. 5741-20 EPA Est. No. 5741-OH-1

ACCEPTED with COMNENTS in EPA Letter Dated: FER - 5 1989 Under the Federal Insecticide, Funcicide, and Rodenticide Act as Funcicide, and Rodenticide Penticide Transled, for the penticide regimered under EPA Reg. No.

IGALL /SIIK SCREEN / RED (I COLOR)



DMQ.

Damp Mop Neutral Disinfectant Cleaner

CSCC1988

DMQ retains the beauty of high gloss floors with the added effectiveness of a disinfectant!

DMQ is recommended to clean, disinfect and deodorize floors, walls, countertops and other hard, non-porous surfaces in hospitals, schools, hotels or any commercial, industrial or institutional facility where a clean and sanitary environment is important.

OMQ provides 700 ppm of quaternary germicide at use-dilution.

Directions for Use: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Bactericidal and Virucidal**
Activity (including the AIDS Virus)

For one-step cleaning and disinfecting in the presence of organic soil and hard water up to

300 ppm as CaCO₃ (17.5 grains), use DMQ at 2 oz. per gallon of water.

Apply with a mop, cloth or spray device.

Treated surface must remain wet for 10 minutes.

Pretiminary cleaning is required for heavily soiled surfaces.

Fungicidal* Activity
Apply DMQ at 2 oz. per gallon of
soft water to a pre-cleaned surface with a mop, cloth or spray
device.

Treated surface must remain wet for 10 minutes.

Guarantee: Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of the date of manufacture. Use product as directed and read all precautionary statements.

PRECAUTIONARY STATEMENTS
Hazard to Humans and Domestic Animals

DANGER

Keep out of reach of children. Causes eye damage and skin Irritation. Do not get in eyes, skin or on clothing. Harmful if swallowed. Wear goggles or face shield and rubber gloves when handling.

STATEMENT OF PRACTICAL TREATMENT in case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash all contaminated clothing before reuse. If swallowed, drink milk, egg white, gelatin solution, or if these are not evallable, drink large quantities of water. Call a physician. NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

STORAGE AND DISPOSAL

Do not reuse empty container. Wrap container and put in trash,

SPARTAN CHEMICAL COMPANY, INC. 110 N. Westwood Avenue/Toledo, OH 43607

ISSA MEMBER
The Experts
on Cleaning and Maintenance

ACCEPTED
with COMMENTS
in EPA Letter Dated:

FEB - 6 1989

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

5741-20

Kills the AIDS Virus HIV-1

ACCEPTED
with COMMENTS
in EPA Letter Dated:

FEB - 6 1999

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





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Retains the Beauty of High Cossis Floor Emishes!

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Aggressive Disinfectant Action

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Bacterioidal Fungicidal* Virucidal**

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Pleasant to Use

(MADDISA) (See Section and Assumption of the particle of th

DMQ... an excellent addition to your high speed floor care program!

Authorized for use by the USDA

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SUBMITTED 4-29-88

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DMQ is recommended to clean, disinfect and deodorize floors, walls, countertops and other hard, non-porous surfaces in hospitals. schools, hotels or any commercial, industrial or institutional facility where a clean and sandary environment is important. **DMO provides 700 ppm of quaternary** germicide at use-dilution Directions for lise:

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

Bactericidal and Virucidal" Activity (Including the AIDS Virus)

For one-step cleaning and disintecting in the presence of organic soil and hard water up to 300 opm as CaCO₃ (175 grains), use DMO at 2 oz per gallon of water Apply with a mop, cloth or spray device Treated surface must remain wet for 10 minutes. Preliminary cleaning is required for heavily soiled surfaces Fungicidal* Activity Apply DMO at 2 oz per gallon of soft water to a pre-cleaned surface with a mop, cloth or surface must

SPECIFICATION DATA: ACTIVE INGREDIENT: n-alkyl (C14-50%, C12-40%, C16-10%) dimethyl benzył ammonium chlorides 4.50%

95 50%

remain wet for 10 minutes.

INERT INGREDIENTS

Specific Gravity = 0.995 at 24°C/75°F Density = 8 30 at 24*C/75*F pH (Concentrate) = 50 60 Miscibility – Completely miscible in all proportions with hot or cold water Viscosity - Non-viscous Color - Yellow Flash Point - None Cloud Point - None to boiling

Stability a Shell at 24°C/75°F - one year minimum

b Freeze/Thaw - three cycles Phosphate Free Contains biodegradable surfactants



Spartan Chemical Co., Inc. 110 N. Westwood Avc. Toledo, Ohio 43607

DMQ is Bactericidal: When applied at 2 oz. per gallon of water, DMQ is a proven one-step disinfectant in the presence of organic soil and 300 ppm hard water. Test method: AOAC Use-Dilution test modified per EPA's DIS/TSS-2 for organic soil load.

Test Conditions: \$% blood serum 10 minute contact time						
	Stephylopaccus sureus ATCC 6536		Paradistrance congliness ATOC 95442		Salmanulla chaleraeeule AZOC 10788	
Sample	Tubes Beted	Rubus Showing Growth	Theres Stated	Rober Showing Growth	Notice Served	Nature Showing Growth
1	60	0	60	0	60	0
2	60	0	60	0	60	0
3	60	0	60	0	60	0

DMQ is Virucidai**: When applied at 2 oz. per gallon of hard water (300 ppm as CaCO₃) in the presence of organic soil, DMQ kills the pathogenic viruses HIV-1 (the AIDS Virus), Herpes Simplex Type 2 and Influenza AsHong Kong.

	Test Conditions: 5% blood serum, 300 ppm hard water 10 minute contact time					
Sample	HEV-1	Herpes Simplex Type 2	Influenza A ₃ Hong Kong			
1	Greater than 3 log reduction	Greater than 3 log reduction	Greater than 3 log reduction			
2	Greater than 3 log reduction	Greater than 3 log reduction	Greater than 3 log reduction			

DMQ is Fungicidal*; When applied at 2 oz per gallon of distilled water to a pre-cleaned surface. DMO kills the pathogenic lungus which causes athlete's loot, Trichophyton mentagrophytes. Test Method: AOAC Fungicidal Test Par. 4 015-4 019.

Trichoph ton mentagrophytes ATCC 9533						
Primary Subcultura						
Sample	Offution	Esposure	5 minutes	10 minutes	15 minutes	
1 .	164		0	0	0	
2	164		0	0	0	

PRECAUTIONARY STATEMENTS Hazard to Humans and Domestic Animals DANGER

Keep out of reach of children. Causes eye damage and skin irritation. Do not get in eyes, skin or on clothing. Harmful it swallowed. Wear goggles or face shield and rubber gloves when handling

STATEMENT OF PRACTICAL TREATMENT In case of contact, irranediately flush eyes or skin with plenty of water for at least 15

minutes. For eyes call a physician. Remove and wash all contaminated clothing. before reuse. If swallowed, drink milk, egg white, getatin solution, or if these are not available, drink large quantities of water. Call a physician

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal Pestfclde Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsale is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office for guidance Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, burn. If burned, stay out of smoke

Packaging: Spartan DMO is available in attractive 55, 30 and 15-gallon drums, 5-gallon pails and gallons, four per case, in compliance with E.P.A. regulations, each gallon is equipped with an approved child resistant closure.

Guarantee: Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product. any unused portion may be returned for credit within one year of the date of manufacture. Use product as directed and read all precautionary statements.

For institutional and industria Use Only

ACCEPTED with COMMENTS in EPA Letter Dated:

FEB - 6 1989

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SA WEMBER

Distributed by:

Under the Federal Insesticide, Fungicide, and Rodenticide Act as amended, for the posticide registered under EPA Ros. No.