

PM-31

Reg # 5741-20

195

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AUG 25 1995

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

Attention: Ronald T. Cook, Microbiologist

Subject: DMQ
EPA Registration No. 5741-20
Your Submission Dated June 21, 1995

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

1. Make the following labeling changes below before you release the product for shipment bearing the amended labeling.
 - a. Revise the statent: "Remove and wash all contaminated clothing before reuse" to read: "Remove contaminated clothing and wash before reuse."
 - b. Revise the statement: "Causes eye damage and skin irritation" to read: Corrosive. Causes eye damage and skin irritation.
 - c. The preferred nomenclature for the active ingredient is "Alkyl" not "n-Alkyl".
2. A release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.
3. A stamped copy of the labeling is enclosed for your records.

If you have any questions concerning this letter, contact V. Goncarovs at 703-305-6663.

Sincerely yours,

Marion Johnson
Product Manager (31)

CONCURRENCE Antimicrobial Program Branch
Registration Division (7505C)

SYMBOL							
SURNAME							
DATE							

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2

FINAL LABEL SUBMITTED 6/21/95



DMQ[®] Damp Mop Neutral Disinfectant Cleaner

ACTIVE INGREDIENT:
n-alkyl (C₁₄ -50%, C₁₂ -40%,
C₁₆ -10%) dimethyl benzyl
ammonium chlorides 4.50%
INERT INGREDIENTS: 95.50%

Non-alkaline germicidal cleaner concentrate specially
designed to clean and disinfect high gloss floors!

Bactericide/Fungicide*/Virucide**

*Kills the athlete's foot fungi, *Trichophyton mentagrophytes*.
**Kills HIV-1 (AIDS Virus), kills Herpes simplex Type 2 and Influenza
A₁/Hong Kong Viruses on hard non-porous inanimate surfaces.

**KEEP OUT OF REACH OF CHILDREN
DANGER**

See side panel for additional precautionary statements.

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

5741-20

AUG 23 1995

SCREEN / COLOR / RED

BEST COPY AVAILABLE

395

FINAL LABEL SUBMITTED 6/21/95



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 environmental surfaces in hospitals, schools, hotels or any commercial, industrial or institutional facility where a clean and sanitary environment is important.

DMQ 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 HIV-1 (AIDS Virus)]**

For one-step cleaning and disinfecting in the presence of organic soil 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.

Preliminary cleaning is required for heavily soiled surfaces.

Fungicide* 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.

****KILLS HIV ON PRE-CLEANED ENVIRONMENTAL SURFACES/ OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care 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).

Special Instructions for Cleaning and Decontamination against HIV-1 of Surfaces or Objects Soiled with Blood or Body Fluids:

Personal Protection: Exposure to blood and body fluids should be

avoided by use of barrier protection such as latex or other impervious gloves. Face shields and impervious gowns should also be worn if splashing of blood or body fluids may occur.

Cleaning Procedure: Gross contamination of blood or body fluids must be removed with

disposable rags, absorbent, etc. before application of DMQ.

Contact Time: Leave surfaces wet for 10 minutes.

Disposal of Infectious Materials: Contaminated cleaning materials, blood and other body fluids should be autoclaved and/or disposed of according to local regulations for infectious waste disposal.

DANGER PRECAUTIONARY STATEMENTS
Hazard to Humans and Domestic Animals

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. Wash thoroughly with soap and water after 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 egg white, gelatin 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 reuse empty container. Wrap container and put in trash.

SPARTAN CHEMICAL COMPANY, INC., 110 N. Westwood Avenue, Toledo, OH 43607 / 1-800-537-8990

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APPROVED
AUG 2 8 1995
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DMQ / 1 GALLON / 5

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ACCEPTED
with conditions
AUG 20 1995
5741-20

DMQ is a
non-alkaline
germicidal cleaner
concentrate
specially designed
to clean and
disinfect high gloss
floors

**Retains the Beauty of
High Gloss Floor
Finishes!**

DMQ kills the germs not the
shine! DMQ's low pH and
special non-alkaline
ingredients will not attack or
dull high gloss floor
finishes

**Aggressive Disinfectant
Action:**

DMQ cleans without dulling
and takes neutral cleaners
one step further with the
addition of aggressive

disinfectant action for areas where
a sanitary and odor free
environment are important.

**Bactericidal/Fungicidal*/
Virucidal****

No Rinsing Required:

DMQ eliminates the time and labor
normally required for rinsing

Economical:

A concentrate, DMQ is economical
enough for everyday use. Add just
2 oz. of DMQ to each gallon of
water for efficient disinfection

Pleasant to Use:

DMQ deodorizes as it cleans leaving
an appealing light citrus fragrance

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

EPA Reg No 3741-20
EPA Est No 5741-011-1

Authorized for use by the USDA

Foster and E group

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595

Retains the beauty of high gloss floors with the added effectiveness of a disinfectant! DMO is recommended to clean, disinfect and deodorize floors, walls, countertops and other hard, non-porous environmental surfaces in hospitals, schools, hotels, many commercial, industrial or institutional facility where a clean and sanitary environment is important. DMO 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 HIV-1 (AIDS Virus))*** For one-step cleaning and disinfecting in the presence of organic soil 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 spray device. Treated surface must remain wet for 10 minutes.

**** KILLS HIV ON PRECLEANED**

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 I (HIV-1) (associated with AIDS)

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS:

Personal Protection: Exposure to blood and body fluids should be avoided by use of barrier protection such as latex or other impervious gloves. Face shields and impervious gowns should also be worn if splashing of blood or body fluids may occur.

Cleaning Procedures: Gross contamination of blood or body fluids must be removed with disposable rags, absorbent, etc. before application of DMO.

Contact Time: Leave surfaces wet for 10 minutes.

Disposal Of Infectious Material: Contaminated cleaning materials, blood and other body fluids should be autoclaved and/or disposed of according to local regulations for infectious waste disposal.

Specification Data:

ACTIVE INGREDIENT:
n-Alkyl (C₁₄ 50%, C₁₂ 40%, C₁₆ 10%) dimethyl benzyl ammonium chloride 4.50%

INERT INGREDIENTS: 95.50%

Specific Gravity -- 0.995 @ 24°C/75°F

Density -- 8.30 @ 24°C/75°F

pH (Concentrate) -- 5.0 - 6.0

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. Shelf @ 24°C/75°F - One year minimum

b. Freeze/Thaw - Three cycles

Phosphate Free

Contains biodegradable surfactants

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

Test Conditions: 5% blood serum, 10 minute contact time						
Sample	Staphylococcus aureus ATCC 6538		Pseudomonas aeruginosa ATCC 15442		Salmonella choleraesuis ATCC 10708	
	Tubes Tested	Tubes Showing Growth	Tubes Tested	Tubes Showing Growth	Tubes Tested	Tubes Showing Growth
1	60	0	60	0	60	0
2	60	0	60	0	60	0
3	60	0	60	0	60	0

DMO is Virucidal:** When applied at 2 oz. per gallon in the presence of organic soil, DMO kills the pathogenic viruses HIV-1 (AIDS Virus), Herpes simplex Type 2 and Influenza A/Hong Kong.

Test Conditions: 5% blood serum, 10 minute contact time			
Sample	HIV-1	Herpes simplex Type 2	Influenza A/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

DMO is Fungicidal*: When applied at 2 oz. per gallon of distilled water to a pre-cleaned surface, DMO kills the pathogenic fungus which causes athlete's foot, Trichophyton mentagrophytes. Test Method: AOAC Fungicidal Test Par. 4.015-4.019.

Sample	Dilution	Trichophyton mentagrophytes ATCC 9533		
		Primary Subculture Exposure: 5 minutes	10 minutes	15 minutes
1	1:64	0	0	0
2	1:64	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 if swallowed. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling.

Environmental Hazards: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other 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.

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 egg white, gelatin 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.
Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate 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 for the Big Kid, 330-gallon disposable tote, 30 and 15 gallon drums, 5-gallon pails, gallons, 4 per case. In compliance with EPA regulations, each gallon is equipped with an approved child resistant closure.

Distributed by

 2741-20