

# metaquat



Germicidal Cleaner

**Bactericide/Fungicide/Sanitizer/Deodorizer**

**For Institutional and Hospital Use Only**

ACCEPTED

SEP 2 1975

UNDER THE FEDERAL FOOD, DRUG & COSMETIC ACT  
FOR BLENDED PRODUCTS  
BY U.S. DEPT. OF HEALTH, EDUCATION & WELFARE  
5741-12

**metaquat** has been shown to be a BACTERICIDE, FUNGICIDE and a SANITIZER by official AOAC Test Methods.

**metaquat** is a specially balanced germicidal cleaner with the added boost of metasilicate. It combines disinfectant activity with excellent cleaning power at 2 oz. per gallon — a 1:64 dilution.

**metaquat** sanitizes food contact surfaces at 250 ppm of active quat

**metaquat** is a deodorizer. It kills not just the bacterial source of odors, but neutralizes the odor causing chemicals themselves

**metaquat** has been formulated for cleaning and disinfecting nonporous, hard environmental surfaces such as floors, walls, woodwork, blocks, saws and other similar hard surfaces

**metaquat** contains no phosphates. It does contain synthetic detergents, wetting agents, builders and chelating agents which represent the latest advances in cleaning technology and environmental disinfection

**metaquat** carries a USDA rating of "E" for use in federally inspected meat and poultry establishments

**metaquat** is registered with the EPA and carries EPA Reg. No. 5741-12

**Specification Data for metaquat**

- 1. Active Ingredients
  - a. Alkyl (C<sub>12</sub>-50% C<sub>14</sub>) 40%
  - b. C<sub>12</sub>-10% Dimethyl benzyl ammonium chloride 3.50%
  - c. Sodium metasilicate 2.65%
  - d. Tetrahydrozinc, formaldehyde 1.91%
- 2. Form: liquid
- 3. Color: light tan
- 4. Specific gravity: 1.04 at 20°C
- 5. pH: 12.7 to 13.1
- 6. Stability: remains clear and colorless
- 7. Flash Point: none
- 8. Volatility: none
- 9. Miscibility: completely miscible with water
- 10. Stability
  - A. Freeze-Thaw: Freezes and thaws with perfect clarity
  - B. At Room Temp. (70° F): stable for at least one year
  - C. At accelerated Temp. (105° F): Stable for at least 90 days
- 11. Will not reduce effectiveness of contact leaf and other mark paper
- 12. Contains biodegradable detergents
- 13. Toxicity: The LD<sub>50</sub> for albino rats is 5.0 ml/kg (3.44-7.39 ml/kg)

**Spartan Guarantee:**

As a Spartan product, **metaquat** is guaranteed to be 100% effective against all bacteria and fungi.

**Packaging:**

**metaquat** is available in 5, 10, and 20 gallon containers.



**Spartan Chemical Company, Inc.**  
110 North Westwood,  
Toledo, Ohio 43607

**Use Directions:** Remove gross soil and heavy deposits from surfaces prior to application of the recommended dilution for disinfecting or sanitizing.

**Disinfection:** To clean and disinfect walls, floors, and other hard environmental surfaces, apply **metaquat** at 2% per gallon of water with a mist or light spray.

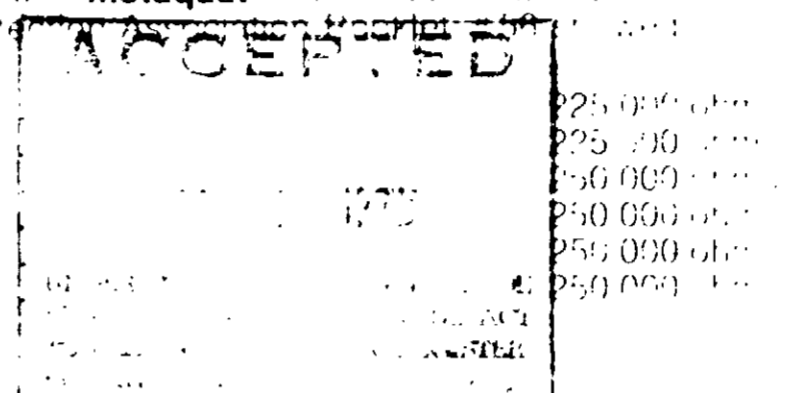
**Sanitization:** To reduce bacterial counts to safe levels on hard contact surfaces, first clean the area with **metaquat** at 2% per gallon of water with a mist or light spray, then apply **metaquat** at 1% per gallon of water with a mist or light spray.

**Deodorization:** When used as a deodorant, **metaquat** is recommended at 1% per gallon **metaquat** in a light mist or spray.

**metaquat** will also remove all types of stains from hard surfaces. For best results, run an emulsion of **metaquat** in water over the stain with a brush or cloth as outlined in the following instructions:

**Initial Reading**

- 1st wash with **metaquat** at 1.6%
- 2nd wash with **metaquat** at 1.6%
- 3rd wash with **metaquat** at 1.6%
- 4th wash with **metaquat** at 1.6%
- 5th wash with **metaquat** at 1.6%



**metaquat is a Bactericide**

**metaquat** is a bactericide designed for use in hospitals. Results of the activity of **metaquat** when run at 2% per gallon according to the Use Directions of the label are listed as set forth in the 12th Edition of the AACC are as follows:

metaquat	Staphylococcus aureus ATCC 6538		Serratia marcescens ATCC 10708		Pseudomonas fluorescens ATCC 15442	
	No. of Tubes Tested	No. of Tubes Showing Growth	No. of Tubes Tested	No. of Tubes Showing Growth	No. of Tubes Tested	No. of Tubes Showing Growth
Sample A	60	0	30	0	30	0
Sample B	60	0	30	0	30	0
Sample C	60	0	30	0	30	0
Phenol Resistance	1:70		1:90		1:80	

Concentration **metaquat** in water: 1.6% per gallon

**metaquat is a Pathogenic Fungicide**

**metaquat** has been shown to be a powerful fungicide. Results of the activity of **metaquat** when run at 2% per gallon according to the Use Directions of the label are listed as set forth in the 12th Edition of the AACC are as follows:

metaquat	Trichophyton mentagrophytes ATCC 9241		Microsporum canis ATCC 9242		Microsporum audouinii ATCC 9243	
	No. of Tubes Tested	No. of Tubes Showing Growth	No. of Tubes Tested	No. of Tubes Showing Growth	No. of Tubes Tested	No. of Tubes Showing Growth
Sample A	60	0	30	0	30	0
Sample B	60	0	30	0	30	0
Sample C	60	0	30	0	30	0

Concentration **metaquat** in water: 1.6% per gallon

**metaquat is a Sanitizer**

**metaquat** has been shown to be a powerful sanitizer. Results of the activity of **metaquat** when run at 1% per gallon according to the Use Directions of the label are listed as set forth in the 12th Edition of the AACC are as follows:

metaquat	Staphylococcus aureus ATCC 6538		Serratia marcescens ATCC 10708		Pseudomonas fluorescens ATCC 15442	
	No. of Tubes Tested	No. of Tubes Showing Growth	No. of Tubes Tested	No. of Tubes Showing Growth	No. of Tubes Tested	No. of Tubes Showing Growth
Sample A	60	0	30	0	30	0
Sample B	60	0	30	0	30	0
Sample C	60	0	30	0	30	0

Concentration **metaquat** in water: 1.0% per gallon

**Detergency:** **metaquat** is a powerful detergent. Results of the activity of **metaquat** when run at 2% per gallon according to the Use Directions of the label are listed as set forth in the 12th Edition of the AACC are as follows:



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## Germicidal Cleaner

EPA Reg. No. 5741-12  
EPA Est. No. 5741-OH-1

**ACTIVE INGREDIENTS:**

n-alkyl (C<sub>12</sub>-50%, C<sub>14</sub>-40%,  
C<sub>16</sub>-10%) dimethyl benzyl  
ammonium chlorides . . . 3.50%  
Sodium metasilicate . . . 2.65%  
Tetrasodium ethylene-  
diamine tetraacetate . . . 1.84%

**INERT INGREDIENTS** . . . 92.01%

Contains no phosphates

**DANGER:**

**KEEP OUT OF REACH  
OF CHILDREN**

See back panel for additional  
precautionary and first aid  
statements.

a specially balanced germicidal cleaner with the  
added boost of metasilicate

**Bactericide / Fungicide / Deodorizer**  
at 2 oz. per gallon

**Sanitizer**  
at 3/4 oz. per gallon

**FOR INSTITUTIONAL & HOSPITAL USE ONLY**

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

Net Contents: 5 U.S. Gallons

ACCEPTED

110 N. WESTWOOD  
TOLEDO, OHIO 43607  
Spartan Chemical Co., Inc.  
110 N. Westwood  
Toledo, Ohio 43607  
Net Contents: 5 U.S. Gallons



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**A SPECIALLY BALANCED  
GERMICIDAL CLEANER WITH  
THE BOOST OF METASILICATE  
DESIGNED FOR INSTITUTIONAL  
AND HOSPITAL USE ONLY**

**metaquat** is a germicidal detergent designed for excellent cleaning, disinfection and deodorization.

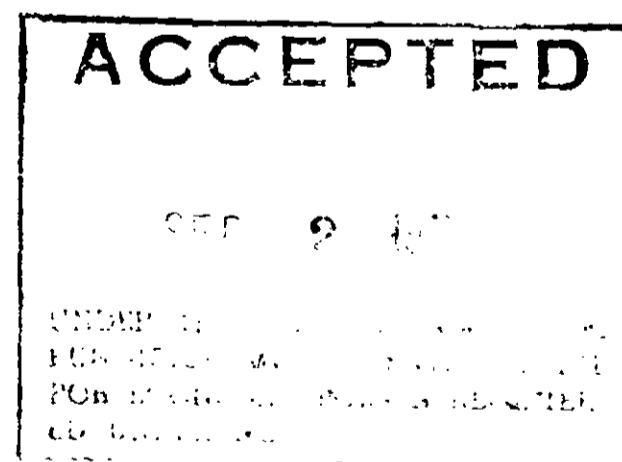
**metaquat** is effective against many pathogenic bacteria and pathogenic fungi, including **Staphylococcus aureus**, **Pseudomonas aeruginosa** and **Trichophyton interdigitale**.

**metaquat** has shown this effectiveness in both the Use-Dilution Confirmation Test and the Fungicidal Test at a dilution of 1:64 as specified in the manual of the AOAC.

**metaquat** has also been shown to be an effective sanitizer for food contact surfaces at 3/4 oz. per gallon by the Official Germicidal and Detergent Sanitizer Test as set forth in the manual of the AOAC.

**metaquat** contains no phosphates.

When used as directed, **metaquat** will not adversely affect conductive flooring or other nonporous hard environmental surfaces.



## Directions for use:

Remove gross filth and heavy soil deposits from surfaces prior to application of the recommended solution for disinfecting or sanitizing.

**Disinfection:** To clean and disinfect walls, floors and other hard environmental surfaces, apply **metaquat** at 2 oz. per gallon of water with a mop, cloth, or sprayer.

**Sanitization:** To reduce bacterial counts to safe levels on food contact surfaces, first, clean the area with **metaquat** at 2 oz. per gallon. Sanitize with a solution of **metaquat** at 3 oz. per four gallons of water applying with a mop, cloth, sprayer or as a dip. Follow with a potable water rinse.

**Deodorization:** When used as directed for cleaning and disinfecting at 2 oz. per gallon, **metaquat** will effectively eliminate noxious odors.

EPA Reg. No. 5741-12  
EPA Est. No. 5741-OH-1

## Spartan Guarantee:

Modern manufacturing and laboratory control insure uniform quality at all times. All products manufactured by Spartan Chemical Company are unconditionally guaranteed to give complete satisfaction or any unused portion may be returned for credit.

**DANGER:** Corrosive. Undiluted product causes severe eye and skin damage. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food.

**FIRST AID: EXTERNAL:** 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 contaminated clothing before reuse.

**FIRST AID: INTERNAL:** If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution; or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

Do not reuse empty container. Rinse thoroughly with water before discarding or returning drum to drum conditioner.

**SPARTAN CHEMICAL COMPANY INC., TOLEDO, OHIO 43607**