

Reason For Issue:  
Updating Use Directions for egg shell  
sanitizing. For submission to EPA.

Date Issued: 7-23-84 (Green)

Prev. Date Issued: 5-18-84

Front Panel



PURINA®  
BRAND  
QUATERNARY DISINFECTANT

EPA Reg. No. 602-223

ACTIVE INGREDIENTS:

n-Alkyl (60% C <sub>14</sub> , 30% C <sub>16</sub> , 5% C <sub>12</sub> , 5% C <sub>18</sub> ) dimethyl benzyl ammonium chlorides . . . . .	11.8%
n-Alkyl (68% C <sub>12</sub> , 32% C <sub>14</sub> ) dimethyl ethylbenzyl ammonium chlorides . . . . .	11.8%
Ethyl Alcohol . . . . .	5.9%

INERT INGREDIENTS . . . . .	70.5%
	<u>100.0%</u>

KEEP OUT OF REACH OF CHILDREN  
DANGER  
See Side Panel For Additional Precautions

NET 1 GAL (3.785L)

17800  
61751

Manufactured By  
RALSTON PURINA COMPANY  
Chemical Specialties Group  
General Offices  
Checkerboard Square  
St. Louis, Missouri 63164

602-223

Precautionary Labeling Must Meet  
Type Size and Prominence Require-  
ments.

BEST DOCUMENT AVAILABLE

(Not to be printed on label)  
USDA Registered Category D2, Q3

PURINA Quaternary Disinfectant is effective against the following organisms - Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa, and Trichophyton interdigitale.

PRECAUTIONARY STATEMENTS  
HAZARD TO HUMANS AND DOMESTIC ANIMALS  
DANGER

Corrosive. 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: 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.

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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with an NPDES permit. For guidance contact your Regional Office of the EPA.

602-223

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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.

ONLY FOR SALE TO, USE, AND STORAGE BY SERVICE PERSONS.

For use in Food and Beverage Processing Plants, Food Handling Establishments, Industrial and Institutional Establishments, Hospitals and Nursing Homes, and Swimming Pools.

Food and Beverage Processing Plants, Food Handling Establishments, Industrial and Institutional Establishments, Hospitals and Nursing Homes - Thoroughly clean and rinse equipment or surfaces to be sanitized. Sanitize with 1/2 ounce of PURINA Quaternary Disinfectant per 4-1/2 gallons of water (200 ppm). Apply with cloth or automatic proportioning equipment. Make sure all surfaces have been thoroughly wetted. No rinse is required after sanitizing at this concentration.

First wash dishes, glassware, silverware. Rinse thoroughly. Immerse in a 1/2 ounce of PURINA Quaternary Disinfectant per 4-1/2 gallons of water (200 ppm).

Thoroughly clean floors, walls, and other hard surfaces. Rinse. Disinfect with 1-1/2 ounces of PURINA Quaternary Disinfectant per 5 gallons of water (550 ppm). Apply with a clean mop or cloth so as to wet surfaces thoroughly.

Egg Shell Sanitizing -

# To sanitize eggs after washing, use 1/2 ounce PURINA Quaternary Disinfectant per 4-1/2 gallons of water. (Provides 200 ppm active quaternaries sanitizing solution.) Apply by spraying or by dipping. Drain and air dry.

As a disinfectant for swimming pool surfaces (walks and runways of supporting surfaces), use 3/4 ounce PURINA Quaternary Disinfectant per 2 gallons of water (provides 690 ppm active quaternaries). Apply with mop, by spraying, or by flooding surface. Allow to air dry.

Algaecide for Swimming Pools - Starting with a clean freshly filled pool, add 1 tablespoonful of PURINA Quaternary Disinfectant to each 400 gallons of water. If pool has visible algae growth, treat with initial dose. Vacuum pool after 24 hours to remove algae debris. If visible algae is still present or reappears, repeat this treatment procedure as necessary. When pool is free of visible algae, add a maintenance dose of 1 tablespoonful per 1600 gallons of water.

Maintenance dose should be added at 3 - 5 day intervals. If high temperatures prevail, or pool has unusually heavy use, add treatment more frequently.

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602 223

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

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 instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

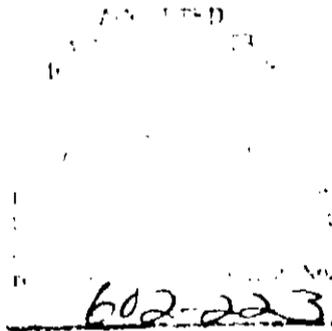
Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Est. No. 602-MO-1

PURINA RESEARCH ASSURES QUALITY

# 8407 P

Lot No.  
Printed in U.S.A.



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90 AUG 1984

Ralston Purina Company  
Checkerboard Square  
St. Louis, MO 63164

Attention: Robert E. Broyles  
Director

Gentlemen:

Subject: Purina Quaternary Disinfectant  
EPA Registration No. 602-223  
Your Application Dated August 1, 1984

The amendment referred to above, submitted in connection with registration under FIFRA, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- a. Revise the referred statement to read:

See side panel for additional precautionary statements.

Revise the statement "FIRST AID" to read: Statement of Practical Treatment.

- c. Revise the entire egg sanitizing claim to read:

SANITIZING SHELL EGGS INTENDED FOR FOOD

To sanitize previously cleaned food-grade eggs in shell egg and egg product processing plants, spray with a solution of 1/2 ounce of this product in 4 1/2 gallons of warm water (200 ppm quat). The solution should be warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow to drain. Eggs sanitized with this product shall be subjected to a potable water rinse only if they are broken immediately for use in the manufacture of egg products. Eggs should be reasonably dry before casing or breaking. The solution should not be re-used for sanitizing eggs.

- d. Add the following statements to the Disinfection Section (upper left panel):

Treated surfaces must remain wet for ten minutes. Prepare a fresh solution daily or when use solution becomes visibly dirty.

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EP 1

OFFICIAL FILE COPY

6-2-84

- c. Add the following statements to the Sanitizing section (upper left panel):

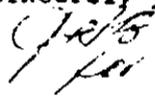
Treated surfaces must remain wet for one minute. Fresh solution should be prepared daily or when use solution becomes visibly dirty. For mechanical application use, solution may not be reused for sanitizing applications.

- 2. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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

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

Sincerely yours,

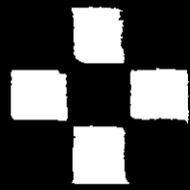


John H. Lee  
Product Manager (31)  
Disinfectants Branch  
Registration Division (TS-767C)

Enclosures

RD/DIS:JLee:DCK-44687:WANG-0066K:KIE:kaven:479-2013:8/13/84:Del.6/24/84

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# Purina

## QUATERNARY DISINFECTANT

### DIRECTIONS:

**1. Food Processing Plants**—Thoroughly clean all equipment and then rinse. Sanitize with  $\frac{1}{2}$  ounce of PURINA QUATERNARY DISINFECTANT per  $4\frac{1}{2}$  gallons of water (200 ppm). Apply with cloth or automatic proportioning equipment. Make sure all surfaces have been thoroughly wetted. No rinse is required after sanitizing at this concentration.

**2. Dairies**—Thoroughly clean and rinse equipment. Sanitize with a solution of  $\frac{1}{2}$  ounce of PURINA QUATERNARY DISINFECTANT per  $4\frac{1}{2}$  gallons of water (200 ppm). Apply with cloth or automatic proportioning equipment. Make sure all surfaces have been thoroughly wetted. No rinse is required after sanitizing at this use dilution.

**3. Egg Shell Sanitizing**—(Commercial and/or hatching eggs). To sanitize eggs which are not washed, use  $\frac{1}{2}$  ounce of PURINA QUATERNARY DISINFECTANT per 1 gallon of water (provides 920 ppm active quaternaries sanitizing solution). Apply with cloth, by spray, or by dipping. Rinse with potable water. Drain and air dry.

To sanitize eggs after washing, use  $\frac{3}{4}$  ounce PURINA QUATERNARY DISINFECTANT per 2 gallons of water. (Provides 690 ppm active quaternaries sanitizing solution). Apply with cloth, by spraying, or by dipping. Rinse with potable water. Drain and air dry.

**4. Hospitals, Institutions and Schools**—Thoroughly clean floors, walls, and other hard surfaces. Rinse. Disinfect with  $1\frac{1}{2}$  ounces of PURINA QUATERNARY DISINFECTANT per 5 gallons of water

(550 ppm). Apply with cloth or automatic proportioning equipment. Rinse thoroughly.

**5. Bars and Restaurants**—Thoroughly clean and rinse. Rinse thoroughly. Immerse with  $1\frac{1}{2}$  ounces of PURINA QUATERNARY DISINFECTANT per 4 gallons of water (550 ppm).

**6. SWIMMING POOLS**—Thoroughly clean and rinse surfaces (walks and runways). Apply with cloth or automatic proportioning equipment. (Provides 690 ppm active quaternaries sanitizing solution). Apply by spraying, or by flooding surfaces.

**7. Algaecide for Swimming Pools**—In a chlorinated pool, add 1 tablet of PURINA QUATERNARY DISINFECTANT to each 4000 gallons of water. If algae growth, treat with initial dose. If algae move, move algae debris. If algae repeat this treatment. If visible algae, add a maintenance dose. Add to 1600 gallons of water.

Maintenance dose should be added when temperatures prevail, and should be added more frequently.

**QUALITY ASSURED**

762 H

# Purina

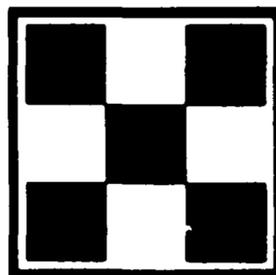
## QUATERNARY DISINFECTANT

Active Ingredients:

- n-Alkyl (60% C<sub>14</sub>, 30% C<sub>16</sub>, 5% C<sub>12</sub>, 5% C<sub>18</sub>) dimethylbenzyl ammonium chlorides..... 11.8%
- n-Alkyl (68% C<sub>12</sub>, 32% C<sub>14</sub>) dimethyl ethylbenzyl ammonium chlorides..... 11.8%
- Ethyl Alcohol !..... 5.9%
- Inert Ingredients..... 70.5%

**DANGER: KEEP OUT OF REACH OF CHILDREN**  
See Side Panels For Additional Precautions

as amended, for the purpose of  
EPA Reg. No. 602-223  
registered under



TM

**DANGER:** Corrosive. 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:** 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.

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.

Rinse Empty Container Thoroughly With Water and Discard

NET 1 GALLON

Manufactured by  
**RALSTON PURINA COMPANY**  
General Offices • Checkerboard Square • St. Louis, Missouri 63188