

PM 31 346-41

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ACCEPTED

OCT 25 1974

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. **346-41**

Precautionary Statements
Hazards to Humans and domestic animals

DANGER

Keep out of reach of children. Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling this product. Harmful if swallowed. Do not breathe spray mist. Avoid contamination of food.

STORAGE AND DISPOSAL

STORAGE: Keep container closed when not in use. Avoid lengthy exposure to extreme temperatures.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or 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. 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.

RUSSELL/DUAL CHAIN

Disinfectant - Sanitizer - Fungicide - Deoderizer - with Organic Soil Tolerance for Hospital, Institutional, Industrial, School, Dairy and Other Farm Uses including Production Equipment and Trucks

Active Ingredients

Alkyl (C ₁₂ , 50%; C ₁₄ , 40% C ₁₆ , 10%) dimethyl benzyl ammonium chloride	8.0%
Octyl decyl dimethyl ammonium chloride	6.0%
Didecyl dimethyl ammonium chloride	3.0%
Dioctyl dimethyl ammonium chloride	3.0%

Inert Ingredients

80.0%
100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

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 contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of gelatin solution; or if this is 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.

SEE LEFT PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

CONSULT MATERIAL SAFETY DATA SHEET PRIOR TO USE

EPA Registration No. 346-41

EPA Establishment No. 346-CO-1

Net Contents 1 GAL

MANUFACTURED BY:

I. D. RUSSELL COMPANY LABORATORIES, LONGMONT, CO

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Disinfection of Barber Tools. Precleaned barber tools (such as combs, brushes, razors, and scissors) can be disinfected by immersing in a 0.5 oz./6 gallons solution of **RUSSELL/DUAL CHAIN**.

Disinfection of Poultry Equipment, Animal Quarters and Kennels. Poultry brooders, watering founts, feeding equipment and other animal quarters (such as stalls and kennel areas) can be disinfected after thorough cleaning by applying a solution of 1 oz **RUSSELL/DUAL CHAIN** to 6 gallons of water. Small utensils should be immersed in this solution.

Prior to disinfection, all poultry, other animals and their feeds must be removed from the premises. This includes emptying all troughs, racks and other feeding and watering appliances. Remove all litter and droppings from floors, walls and other surfaces occupied or traversed by poultry or other animals.

After disinfection, ventilate buildings, coops and other closed spaces. Do not house poultry, or other animals or employ equipment until treatment has been absorbed, set or dried.

All treated equipment that will contact feed or drinking water must be rinsed with potable water before reuse.

Sanitizing of Food Processing Equipment and Other Hard Surfaces in Food Contact Locations. For sanitizing food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage and display equipment and other hard non-porous surfaces **No Potable water rinse is required.**

Wash and rinse all articles thoroughly, then apply a solution of 1 oz of **RUSSELL/DUAL CHAIN** in 10 gallons of water (150ppm active). Surfaces should remain wet for at least one minute followed by adequate draining and air drying. 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.

Apply to sink tops, countertops, refrigerated storage and display equipment and other stationary hard surfaces by cloth or brush or mechanical spray device. **No Potable water rinse is required.**

Dishes, silverware, glasses, cooking utensils and other similar size food processing equipment can be sanitized by immersion in a 1 oz./10 gallon solution of **RUSSELL/DUAL CHAIN**. **No Potable water rinse is required.**

At 1 oz./10 gallons **RUSSELL/DUAL CHAIN** fulfills the criteria of Appendix F of the Grade "A" Pasteurized Milk Ordinances 1978. Recommendations of the U.S. Public Health Services in waters up to 800 ppm of hardness calculated as CaCO₃ when evaluated by the AOAC Germicidal and Detergent Sanitizer Method against *Escherichia coli* and *Staphylococcus aureus*.

The udders, flanks and teats of dairy cows can be sanitized by washing with a solution of 1 oz. of **RUSSELL/DUAL CHAIN** in 10 gallons of warm water. **No Potable water rinse is required.** Use a fresh towel for each cow. Avoid contamination of sanitizing solution by dirt and soil. Do not dip used towel back into sanitizing solution. When solution becomes visibly dirty, discard and provide fresh solution.



FOR SALE FOR USE AND STORAGE BY MAINTENANCE PERSONNEL ONLY

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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.

Apply **RUSSELL/DUAL CHAIN** with a cloth, mop or mechanical spray device. When applied with a mechanical spray device, surface must be sprayed until thoroughly wetted. Treated surfaces must remain wet for 10 minutes. Fresh solution should be prepared daily or when the use solution becomes visibly dirty.

Disinfection in Hospitals, Nursing Homes and Other Health Care Institutions. For disinfecting floors, walls, countertops, bathing areas, lavatories, bed-frames, tables, chairs, garbage pails and other hard non-porous surfaces.

Add 0.75 oz. **RUSSELL/DUAL CHAIN** to 2.5 gallons water. Apply to previously cleaned hard surfaces. At this use level, **RUSSELL/ DUAL CHAIN** is effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Salmonella choleraesuis* in the presence of 5% blood serum when evaluated by the AOAC Use-Dilution test.

Disinfection in Institutions, Industry and Schools. Add 0.5 oz. of **RUSSELL/DUAL CHAIN** to 3 gallons of water. At 0.5 oz. to 6 gallons of water use level, the fungicidal effectiveness of **RUSSELL/ DUAL CHAIN** in the presence of 5% blood serum against *Trichophyton mentagrophytes* has been shown utilizing the AOAC Fungicidal Test.

List #6701

DLORADO 80501

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Net Contents 4 x 1 Gallon

List #

DUAL CHAIN

Precautionary Statements
Hazards to Humans and Domestic Animals

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**Consult Bottle Label
for Use Instructions**

Take Time



Observe Label Directions

Disinfectant - Sanitizer - Fungicide - Deodorizer - with Organic Sulfur
Hospital, Institutional, Industrial, School, Dairy and Other Farm Uses
Production Equipment and Trucks

Active Ingredients:

Alkyl (C₁₄, 50%, C₁₂, 40%, C₁₆, 10%) dimethyl benzyl ammonium chloride

Octyl decyl dimethyl ammonium chloride

Didecyl dimethyl ammonium chloride

Dioctyl dimethyl ammonium chloride

Inert Ingredients:

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DANGER

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If swallowed, drink promptly a large quantity of gelatin solution. If gelatin is 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.

SEE BOTTLE LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS. CONSULT MATERIAL SAFETY DATA SHEET PRIOR TO USE.

EPA Registration No.

EPA Establishment No.

346

Manufactured by: I.D. RUSSELL COMPANY LABORATORIES, LONGMONT, COLORADO 80501

ACCEPT
OCT 25 1993
Under the Federal Insecticide, Fungicide, and Rodenticide Act, this product is registered under EPA Reg. No. 346-