

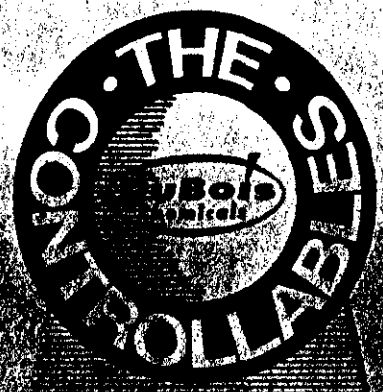
## **PLEASE NOTE**

**This image contains more than one label approved for this product on this date.**



D-TROL

sanitizer/disinfectant/algaeicide



**CONTROL**

- MISUSE
- PROPORTIONING
- HANDLING
- MANHOURS
- COST

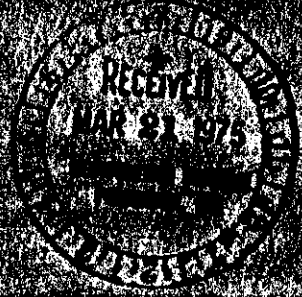
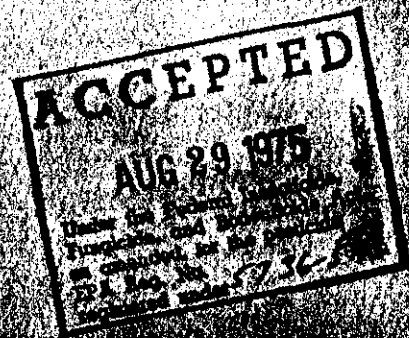
**WHEN YOU USE**

# D-TROL

sanitizer/disinfectant/algaeicide

Registered under U.S. Patent 2,980,000

- Safe on machinery, equipment, metal parts, pumps, fittings and bearings.
- Authorized as a final sanitizing rinse in food and meat plants.
- Disinfects and deodorizes in one operation.
- Effective in hard water; stable at high temperatures.
- Sanitizes by Reducing the number of odor-causing bacteria.
- Deodorizes equipment, floors, walls, metal, glass, rubber and painted surfaces.
- Economical use cost.



DUBOIS CHEMICALS, DIVISION OF CHEMED CORPORATION

DuBois Chemicals are sold throughout the United States (Gen. Off.: Cincinnati, Ohio), Australia, Canada, France, Germany, Italy, Japan, Mexico and Venezuela.

# D-TROL

## TECHNICAL DATA

**GENERAL DESCRIPTION:** D-TROL is a blend of dual quaternary ammonium chlorides formulated for sanitizing in beverage, dairy, food, meat and poultry operations, and for disinfecting in hospitals, rest homes and veterinary operations.

EPA Registration Number 5738-5-AA

**PROPERTIES:** pH 1% solution 6.6-7.8  
Color light green  
Foam Slight  
Stability Stable in hard water up to 750 ppm  
Density 8.25 pounds per gallon

**MICROBIOLOGICAL DATA:** Official A.O.A.C. Procedures, 12th Edition, 1970.

**WATER TOLERANCE:** D-TROL at 1/4 ounce per gallon (600 ppm) meets the requirements of the test against *Staphylococcus aureus* (ATCC No. 6538) and *Escherichia coli* (ATCC No. 8739) in 1/4 ounce solutions of D-TROL per gallon of water (800 ppm quat).

**DIRECTIONS FOR USE:** FOR FINAL SANITIZING: D-TROL is used on BEVERAGE/DAIRY/FOOD PLANTS, glass equipment with a suitable detergent and rinsing. For final sanitizing, D-TROL is used at 1/4 ounce of D-TROL (600 ppm) per gallon of water. D-TROL is used on SANITIZING SOLUTIONS, sanitizing equipment and on food contact surfaces. For disinfecting, D-TROL is used on surfaces and equipment as specified by appropriate authorities. This product is registered under EPA Registration No. 5738-5-AA. For a complete list of uses and recommendations, see the D-TROL Technical Data Sheet. D-TROL is registered under EPA Registration No. 5738-5-AA. When tested, D-TROL meets the requirements of the test against *Staphylococcus aureus* (ATCC No. 6538) and *Escherichia coli* (ATCC No. 8739) in 1/4 ounce solutions of D-TROL per gallon of water (800 ppm quat).

**DISINFECTING:** D-TROL is used on surfaces and equipment as specified by appropriate authorities. This product is registered under EPA Registration No. 5738-5-AA. For a complete list of uses and recommendations, see the D-TROL Technical Data Sheet. D-TROL is registered under EPA Registration No. 5738-5-AA. When tested, D-TROL meets the requirements of the test against *Staphylococcus aureus* (ATCC No. 6538) and *Escherichia coli* (ATCC No. 8739) in 1/4 ounce solutions of D-TROL per gallon of water (800 ppm quat).

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**WATER TOLERANCE CONFIRMATION:** D-TROL at 1/4 ounce per gallon (600 ppm) meets the requirements of this test against *Staphylococcus aureus* (ATCC No. 6538), *Salmonella choleraesuis* (ATCC No. 10708), and *Pseudomonas aeruginosa* (ATCC No. 15442).

**APPLICATIONS:** After cleaning surfaces with suitable detergent and rinsing, the disinfecting solution of D-TROL may be applied by soaking, spraying with suitable spray equipment, a clean mop or clean sponge.

**QTC TEST KIT:** Use the QTC Test Kit (Mott Chemical Products Co., Chestertown, Md. 21631) for periodically testing the quat concentration in the D-TROL using dilution. Instructions enclosed. Readjust setting as required.

**PRECAUTIONS:** DANGER; KEEP OUT OF REACH OF CHILDREN. See detailed precautionary instructions on the container label.

**DUBOIS CHEMICALS, DIVISION OF CHEMED CORPORATION**  
275 GENERAL OFFICES: DUBOIS TOWER, CINCINNATI, OHIO 45202 PHONE (513) 762-8000

Use of this product is restricted to the uses specified on the label. The user assumes all risk of use and/or damage to property resulting from the use of this product. The manufacturer is not responsible for any damage to property resulting from the use of this product.

**NEXT**

**LABEL**

**TECHNICAL DATA**

FROM RESEARCH LABORATORY

D-TROL  
Use As A Fungicide

**GENERAL DESCRIPTION:** D-TROL is a blend of dual quaternary ammonium chlorides formulated to be effective for destroying fungi which causes mold and mildew.

**PROPERTIES:**

pH 1% solution	6.5-7.5
Color	Light green
Foam	Slight
Stability	Stable in hard water up to 750 ppm
Density	8.25 pounds per gallon

EPA Registration Number 5736-5-AA

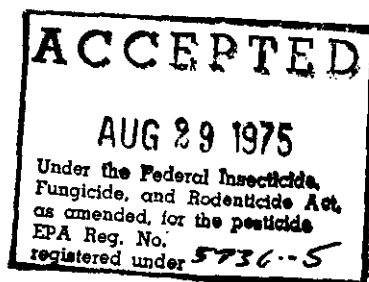
**DIRECTIONS FOR USE:** For Destroying Mold and Mildew on Hard Surfaces  
Clean surfaces with a suitable detergent and rinse. For destroying or killing fungi which cause mold and mildew growth on hard surfaces such as floors and walls in hospitals, meat, poultry, beverage, dairy, food and similar facilities use 1-3/4 ounces of D-TROL per one gallon of water (1400 ppm quat).

This concentration of D-TROL will kill on contact. Repeat this application when evidence of mold or mildew reappear.

D-TROL may be applied by soaking, spraying with suitable spray equipment, a clean mop or clean sponge. When applied to equipment which will have subsequent food contact, this treatment must be followed by a thorough potable water rinse.

D-TROL at this concentration passes the EPA's Use-Dilution Mildew Fungicidal Test Method (Revised 12/1/70) against Aspergillus niger ATCC 6275. Results of this microbial test are printed on the reverse side of this data sheet.

**PRECAUTIONS:** DANGER: KEEP OUT OF REACH OF CHILDREN.  
See detailed precautionary instructions on the container label.



Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.



DUBOIS CHEMICALS, DIVISION OF CHEMED CORPORATION / 11/14/74/ dw



# RESEARCH LABORATORY

3630 EAST KEMPER ROAD • SHARONVILLE, OHIO 45241

Division of Chemed Corporation

November 13, 1974

2/2

## REPORT ON MILDEW FUNGICIDAL TEST

Product: DuBois D-TROL

Batch: 408-0741

Method: Use-Dilution Mildew Fungicidal Test Method (Revised 12/1/70),  
EPA, PRD, Fungicides Evaluation Staff

Medium: Neopeptone-Dextrose-Lecithin Broth

Dilution: 1:84 (1290 ppm active quat)

Contact: Stainless steel ring carriers were allowed to stand in a standard spore suspension of Aspergillus niger ATCC 6275 for 10 minutes - allowed to dry overnight at room temperature on sterile petri plates matted with filter paper. The contaminated carriers were in contact with the test sample for 10 minutes at 20°C.

Incubation: 25°C/5 days

### Results:

		1	2	3	4	5	6	7	8	9	10
D-TROL	A	-	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-	-	-
Phenol (1:70)		-	-	-	-	-	-	-	-	-	-
Phenol (1:80)		+	+	+	+	+	+	+	+	+	+
Growth Controls		+	+								

- = No Growth (Kill)                      A = Subculture  
+ = Growth (No kill)                      B = Resubculture

*William J. Seiter*  
W. J. Seiter  
Senior Microbiologist  
Research Department

WJS/dw