



U.S.D.A. Reg. No. 1457-G

NEO-GERM-I-TOL 80%

Active Ingredients

n-Alkyl (C₁₄ 60%, C₁₆ 30%, C₁₂ 5%, C₁₈ 5%) Dimethyl Benzyl Ammonium Chloride.....80.0%

Isopropyl Alcohol13.3%

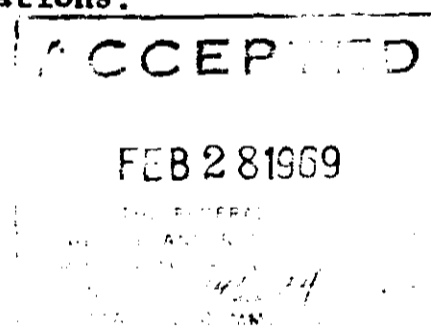
Inert Ingredients 6.7%

Total 100.0%

Directions for Use

Neo-GERM-I-TOL 80% is a specially prepared quaternary ammonium biocide supplied as an 80% active quaternary ingredient concentrate.

Please refer to Neo-GERM-I-TOL 80% Technical Data Sheet for specific applications and recommended concentrations.

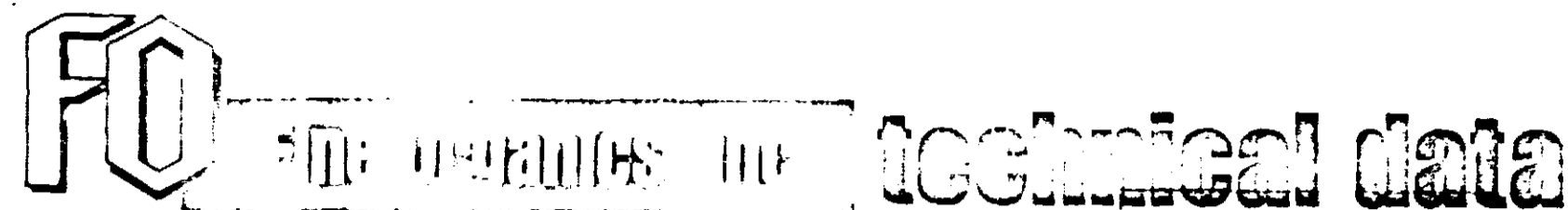


DANGER

KEEP OUT OF REACH OF CHILDREN

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, do not induce vomiting, drink large quantities of fluid and call a physician immediately.



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Neo-GERM-I-TOL 80%

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Isopropyl Alcohol.....13.3 %

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Total 100.0 %

Bacteriological Properties

Neo-GERM-I-TOL 80% on an 80% active quaternary ingredient basis has the following phenol coefficients when tested in accordance with the AOAC Phenol Coefficient Procedure:

Organism	10 minute killing dilution		
	Phenol	Neo-GERM-I-TOL 80%	Phenol Coefficient
Staphylococcus aureus	1:60	1:36,000	600
Salmonella typhosa	1:90	1:36,000	400
Escherichia coli	1:70	1:19,500	278

In the dilutions recommended for application, Neo-GERM-I-TOL 80% is practically tasteless, odorless, colorless, neutral and stable. Dilute and concentrated solutions of Neo-GERM-I-TOL 80% are non-corrosive to polyethylene, stainless steel, natural rubber and plastics. Dilute solutions of Neo-GERM-I-TOL 80% may be corrosive to iron, brass, aluminum and copper. In many cases the addition of 0.5% sodium nitrite effectively minimizes corrosive action.

Directions for Use

For most applications, a stock solution of Neo-GERM-I-TOL containing 10% active quaternary ingredient, is prepared and further dilutions are made from the stock solution. The 10% active quaternary ingredient stock solution is prepared by diluting 1 part of Neo-GERM-I-TOL 80% with 7 parts of soft or deionized water.

Recommended Uses - See RECOMMENDED DILUTIONS BELOW

Neo-GERM-I-TOL 80% may be used to sanitize the following equipment or areas:

*Milking machines	Floors (sluicing)	Animal cages
*Milk cans	Operating theatre	General deodorization
*Dishes	Garbage cans	Walls
*Cutlery & glasses	Urinals	Mopping floors
*Food processing equipment	*Food storage bins	Cold storage rooms

*Must be rinsed with potable water before recontact with food.

Recommended Dilutions

The stock solution containing 10% active quaternary ingredient, as prepared in the above directions, must be further diluted before use and the following concentrations are recommended:

1 oz. Neo-GERM-I-TOL stock solution (10% active quaternary ingredient) diluted with 2 gallons of water for previously cleaned non-porous surfaces. This dilution provides 390 ppm active quaternary ingredient.

1 oz. Neo-GERM-I-TOL stock solution (10% active quaternary ingredient) diluted with 1 gallon water for previously cleaned porous surfaces. This dilution provides 780 ppm active quaternary ingredient.

In all applications an exposure period of at least 2 minutes should be maintained where the temperature of the solution is at least 75°C and the pH of the solution is 6 or higher.

SWIMMING POOLS

For the control of algae:

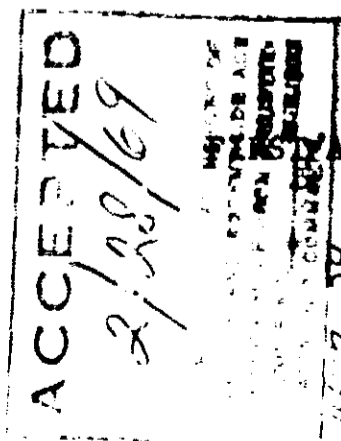
- (A) an initial dose of 2.5 - 5 ppm active quaternary ingredient (1-2 fluid ozs. Neo-GERM-I-TOL 10% per 300 gallons of water) to be applied to freshly cleaned and filled pools.
- (B) a maintenance dose of 0.5 ppm active quaternary ingredient (1 fluid oz. Neo-CERM-I-TOL 10% per 1550 gallons of water) to be applied every 3 - 7 days.

Antimicrobial Activity in Hard Water

Neo-GERM-I-TOL 80% fulfills the criteria, the Grade 'A' Pasteurized Milk Ordinance, 1965, recommendation of the U. S. Public Health Service in waters up to 500 ppm hardness calculated as CaCO₃ when tested by the method outlined by C. W. Chambers, Jnl. of Milk & Food Technology, Vol. 19, #7, July-1956.

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