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BARLOW CHEMICAL CORPORATION

BARLOW LANE

OSSINING, NEW YORK

ACCEPTED

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U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
 FEDERAL BUREAU OF INVESTIGATION
 DIVISION OF IDENTIFICATION
 PHYSICAL PROPERTIES SECTION
 LABORATORY NO. 10312

BARQUAT MB-50

Alkyl (C₁₄, C₁₆, C₁₂, C₁₈) Dimethyl Benzyl Ammonium Chloride, 50%

PHYSICAL PROPERTIES:

BARQUAT MB-50 is a surface active cationic germicide normally supplied in 50% strength but also available in higher or lower concentrations. This quaternary is soluble in any proportions with water and alcohols and is stable in cold or boiling water. In its normal 50% strength BARQUAT MB-50 is a clear, free-flowing light amber liquid. In proper dilutions it is non-toxic, non-corrosive, non-irritating, odorless, and has a slightly bitter taste.

CHEMICAL AND BACTERIOLOGICAL PROPERTIES:

BARQUAT MB-50 is a selected blend of quaternary ammonium chlorides developed specifically for unusually high germicidal potency. Another important characteristic of this product is its maintenance of high bacteriological potency in hard water. BARQUAT MB-50 is compatible with non-ionic and cationic detergents but is not compatible with soap or anionic detergents.

The minimum phenol coefficients for BARQUAT MB in 100% strength at 20°C determined by standard FDA technique (Official A.O.A.C. Phenol Coefficient) are:

- Staphylococcus aureus - 700
- Salmonella typhosa - 400

The bactericidal potency of BARQUAT MB-50 is maintained in waters containing up to 550 parts per million hardness when evaluated according to the criteria of Appendix F of the Milk Ordinance and Code, 1953, revised March 12, 1956.

APPLICATIONS: *For the BARQUAT MB-50 is sold, of course, the phenol coefficients are one-half the above.*

This quaternary is an extremely effective germicide and sanitizer and has found especially wide application in uses where maintenance of high germicidal potency in hard water is desired. It is used in the formulation of detergent-sanitizers used in institutions, food processing plants, restaurants, dairies, etc. Many uses for BARQUAT MB-50 can be found in industry where the control of microorganisms is critical. Wherever large volumes of water are handled, such as in cooling towers, water recirculating systems, or secondary oil recovery, this quaternary can be effective in controlling the growth of undesirable bacteria and algae.

HANDLING:

It is recommended that stainless steel, ceramic, or glass-lined equipment be used for the preparation of dilutions. Any portions of the body coming in contact with the concentrate should be washed thoroughly with water.