

# FMB 451-5 QUAT

concentrated germicide

## I. INGREDIENT STATEMENT

**Active Ingredients:**

n-alkyl \*(C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>10</sub> 10%) dimethyl benzyl ammonium chloride ..... 50.0%

Inert Ingredients ..... 50.0%

Total 100.0%

## II. CHEMICAL AND PHYSICAL PROPERTIES

**A. Appearance:** A clear straw to light amber liquid with a mild odor. Crystallization may occur after prolonged storage at low temperatures, but will return to its homogeneous liquid state upon warming.

**B. Specific Gravity at 25°C:** 0.96 - 0.98

**C. pH (10% solution in distilled water):** 6.0 - 8.0

**D. Activity:** 50% min.

**E. Color (Gardner):** 3 max.

**F. Average Molecular Weight:** 359.1

**G. Free Amine plus Amine Hydrochloride:** 1.2% max.

**H. Flash Point (TCC):** 100°F MIN.

**I. Solubility:** Freely soluble in water, lower alcohols, ketones and glycols.

**J. Compatibility:** FMB 451-5 Quat is compatible with inorganic detergent builders, organic chelates, non-ionic surfactants and most polar solvents. FMB 451-5 Quat is cationic; and therefore, is incompatible with soap or anionic surfactants.

**ACCEPTED**

JAN 14 1991

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under 47371-11  
EPA Reg. No.