

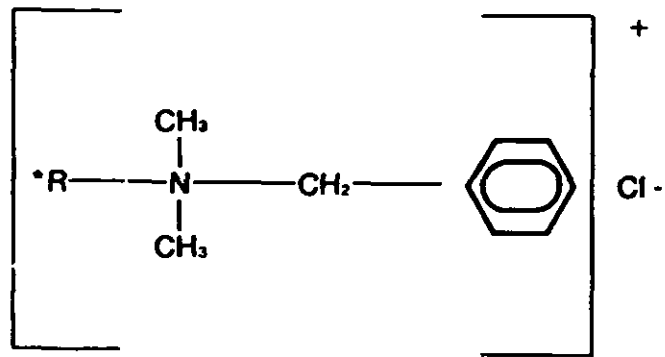


H&S Chemicals Division

# FMB 4500-8 QUAT

concentrated germicide

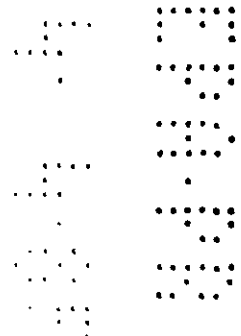
EPA Chemical Reference Number: 69104



n-alkyl \* (C<sub>14</sub> 60%, C<sub>16</sub> 30%, C<sub>12</sub> 5%, C<sub>18</sub> 5%)  
dimethyl benzyl ammonium chloride

**ACCEPTED**  
**MAY 06 1985**  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act,  
 as amended, for the pesticide  
 registered under  
 EPA Reg. No. 47371-12

EPA Registration Number 47371-12



HS-III

# FMB 4500-8 QUAT

concentrated germicide

## I. INGREDIENT STATEMENT

Active Ingredients:

n-alkyl * (C <sub>14</sub> 60%, C <sub>16</sub> 30%, C <sub>12</sub> 5%, C <sub>18</sub> 5%) dimethyl benzyl ammonium chloride . . . . .	80.0%
ethanol . . . . .	12.5%
Inert Ingredients . . . . .	7.5%
Total	100.0%

## II. CHEMICAL AND PHYSICAL PROPERTIES

- A. Appearance: A clear straw to light amber liquid with a mild odor. Crystalization may occur after prolonged storage at low temperatures, but will return to its homogeneous liquid state upon warming.
- B. Specific Gravity at 25°C: 0.933 - 0.953
- C. pH (10% solution in distilled water): 6.0 - 8.0
- D. Activity: 80% min.
- E. Color (Gardner): 3 max.
- F. Average Molecular Weight: 377.3
- G. Amine Hydrochloride: 1.25% max.
- H. Free Amine plus Amine Hydrochloride: 1.5% max.
- I. Flash Point (TCC): 94°F.
- J. Solubility: Freely soluble in water, lower alcohols, ketones and glycols.
- K. Compatibility: FMB 4500-8 Quat is compatible with inorganic detergent builders, organic chelates, nonionic surfactants and most polar solvents. FMB 4500-8 Quat is cationic; and therefore, is incompatible with soap or anionic surfactants.

### L. Acute Toxicity Results:

- 1. Eye irritation: Severe irritant
- 2. Skin irritation: Primary skin irritant
- 3. Dermal LD<sub>50</sub>: 3g/kg
- 4. Oral LD<sub>50</sub>: 1g/kg