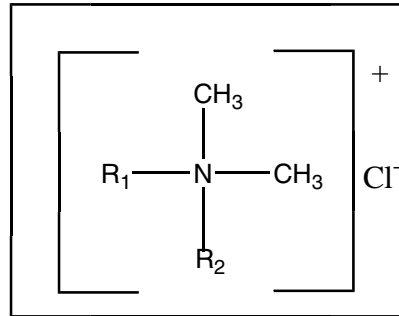
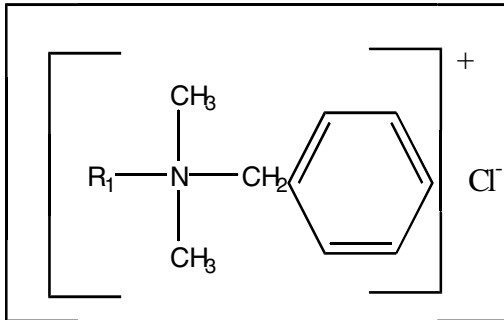


## BARDAC<sup>®</sup> 205M

## BARDAC<sup>®</sup> 208M

Quaternary Ammonium Compounds  
EPA Registered



Bardac<sup>®</sup> 205M and Bardac<sup>®</sup> 208M are blends of twin chain quaternary ammonium compounds and alkyl dimethyl benzyl ammonium chloride. When used as an active ingredient in FIFRA<sup>1</sup> registered formulations such as hard surface disinfectants, sanitizers and/or certain types of water treatment formulations, these products have been found to provide superior biocidal action against a broad spectrum of microbial organisms such as: bacteria, fungi, viruses, and algae. This “fourth” generation quaternary ammonium compound delivers potent germicidal action in hard water and organic soil loads.

### Typical Chemical Composition

#### Active Ingredients

Alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%)  
Dimethyl benzyl ammonium chloride  
Octyl decyl dimethyl ammonium chloride  
Dioctyl dimethyl ammonium chloride  
Didecyl dimethyl ammonium chloride

#### Bardac<sup>®</sup> 205M

20%  
15%  
6%  
9%

#### Bardac<sup>®</sup> 208M

32%  
24%  
9.6%  
14.4%

#### Inert Ingredients

Ethyl Alcohol  
Water

10%  
40%

10%  
10%

1 FIFRA – Federal Insecticide, Fungicide and Rodenticide Act

The seller makes no warranty, expressed or implied, concerning the accuracy of any results to be obtained from the use of this information and no warranty is expressed or implied concerning the use of these products other than indicated within. The buyer assumes all risks of use and/or handling. No statement is intended or should be construed as a recommendation to infringe any patent Printed in the USA Revised 11-29-07

## Typical Properties

	<u>Bardac® 205M</u>	<u>Bardac® 208M</u>
Appearance	Clear, pale yellow. To straw liquid	Clear, pale yellow to straw liquid
Color (APHA)	150 Max.	200 Max.
pH (10% solution)	6.5 – 9.0	6.5 – 9.0
Flash Point (Setaflash, °F)	118	116
Average Molecular Weight	342	342
Specific Gravity @ 25°C	0.946	0.912
Density in lbs./gal.	7.89	7.61
Freezing Point, °F	-12	-4

## Physical State

Clear, pale yellow to straw liquid with a mild odor. Congealing may occur during prolonged storage at low temperatures; this is a reversible on warming with mixing.

## Solubility

Freely Soluble in water, lower alcohols, ketones, and glycols.

## Safety & Toxicology

Refer to Lonza Material Safety Data Sheet for this product.

## Regulatory Information

	<u>Bardac® 205M</u>	<u>Bardac® 208M</u>
EPA Registration No.:	6836-66	6836-67
Canadian Pesticide Control No.:	21723	21726
CAS No.:	68424-95-3 & 68424-85-1	68424-95-3 & 68424-85-1
California Registered	Yes	Yes

Bardac® 205M and Bardac® 208M are permitted for use as an indirect food contact surface sanitizers as noted in 40CFR 180.940(a)

The components of Bardac® 205M and Bardac® 208M are listed in the United States Environmental Protection Agency TSCA Chemical Inventory list.

## Application

Bardac® 205M and 208M have been incorporated into a substantial number of Lonza EPA registered formulations. These formulations include but are not limited to: disinfectants, sanitizers, and industrial water treatment. For more information on Lonza's extensive portfolio of EPA registered formulations and our Supplemental Registration Program please call our Technical Service Hotline at (800) 365-TECH (8324).