

## Product Information

### Personal Care

# BC 2211 Quaternary Ammonium Silicone Micro Emulsion

**INCI name: Silicone Quaternium-15 (and) C11-15 Pareth-5 (and) C11-15 Pareth-9**

#### Description

Basildon Chemicals BC 2211 Quaternary Ammonium Silicone Micro Emulsion is a non ionic microemulsion of a medium viscosity alkyl quaternary ammonium polydimethylsiloxane.

#### Product Features

1. Quaternary functional silicone for optimum conditioning effect.
2. Fine particle size (Less than 0.04 microns).
3. Thermal heat protection.
4. Assists in colour retention.
5. Low viscosity emulsion, easy to blend and pour.

#### Typical Properties

These values are not intended for use in preparing specifications (see table).

#### Method of Use

This will depend on the type of formulation in which the BC 2211 Micro Emulsion is being included and the other ingredients involved.

#### Applications

BC 2211 was developed for use in the manufacture of conditioning shampoos and other hair care products. It's fine particle size and charged quaternary ammonium silicone makes it ideal in this type of formulation where it provides a high quality conditioning effect on a variety of hair types.

It is usually used at a level of between 2.0% and 4.0% in the shampoo formulation but can be effective at levels as low as 0.5%.

#### Toxicity and Handling

BC 2211 Micro Emulsion is basically non-hazardous with a very low order of toxicity, although prolonged contact with the skin or contact with the eyes may cause some irritation. See our material safety data sheet for more information.

#### Storage and Shelf Life

Store under cool and dry conditions. When stored at below 32°C BC 2211 Micro Emulsion has a shelf life of 12 months from the date of manufacture. Ideally do not allow the product to freeze.

#### Technical Service

Our technical and sales staff have considerable experience of the use of silicone products in a very wide variety of industries and the benefit of this experience is freely available to all our customers.

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#### Typical Properties

Specific gravity (25°C):	1.0
Appearance:	Clear to slightly hazy, pale amber micro emulsion
Percentage silicone:	20%
CTFA/INCI designation:	Silicone Quaternium-15 (and) C11-15 Pareth-5 (and) C11-15 Pareth-9
Viscosity:	50 – 200 cP
PH:	4 - 5

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