



Technical Data Sheet

DOWSIL™ CE-8170 AF Microemulsion

INCI Name: Amodimethicone (and) C11-15 Alketh-7 (and) Laureth-9 (and) Glycerin (and) Trideceth-12

Features & Benefits

- Highly translucent.
- Water dilutable.
- Improves wet and dry combing.
- Enhances hair shine.
- Improves hair volume.
- Reduces hair flyaway.
- Emulsion form makes formulating easy.
- Ideal for clear formulations.

Applications

- Excellent conditioning additive for a wide range of hair care applications including rinse-off conditioners, shampoos, leave-in conditioners and clear products.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Appearance		Clear to slightly hazy
Silicone Content	wt%	20
Viscosity at 25°C (77°F)	cP	100
pH		5.7–7.8
Suitable Diluent		Water
Emulsifier Type		Nonionic
D4 Content	%	< 0.1

Description

DOWSIL™ CE-8170 AF Microemulsion is a very fine particle size emulsion (i.e., 'micro') of a high molecular weight amino functional silicone polymer.

DOWSIL™ CE-8170 AF Microemulsion provides excellent conditioning performance in a wide range of hair care applications including shampoos, rinse-off and leave-in conditioners and styling products. It provides improved combing and enhanced hair shine.

How to Use

To optimize the dispersion of DOWSIL™ CE-8170 AF Microemulsion into the final formulation, it is recommended to add it slowly at the end of the procedure at a temperature below 40°C (104°F) with continuous mixing.

Recommended use level is 2–10% for hair care formulations.

**Handling
Precautions**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

**Usable Life and
Storage**

When stored at or below 40°C (104°F) in the original unopened containers, this product has a usable life of 12 months from the date of production.

**Packaging
Information**

This product is available in 200 kg drums and 20 kg pails.

Samples are available in 500 ml bottles.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

**Health and
Environmental
Information**

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com or consult your local Dow representative.

**Disposal
Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

**Product
Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

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