



## Technical Data Sheet

### DOWSIL™ 8500 Conditioning Agent

INCI NAME: Bis(C13-15 Alkoxy) PG-Amodimethicone

#### Features & Benefits

- Amino functional siloxane polymer
- Can be used for clear and opaque products
- Low yellowing
- No emulsifiers or preservatives
- Free of animal-derived and vegetable- derived ingredients and genetically modified organisms
- Excellent compatibility with cyclopentasiloxane and isododecane
- Partial compatibility with ethanol
- Easy to formulate:
  - Cold and hot process possible
  - Can be added at the beginning or the end of formulation process
  - No solubilizer or suspending agent required - Easy to microemulsify
- Superior conditioning:
  - Strong wet and dry detangling
  - Smooth feel
- Color protection

#### Applications

- Clear and opaque conditioning shampoos
- Colorants (semi-permanent and permanent)
- Leave-in conditioners (detanglers, anhydrous serums, hair masks, mousses, etc.)
- Anhydrous systems (fixatives, leave on, etc.)
- Aqueous systems (rinse-off conditioners)

#### Typical Properties

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

Property	Unit	Result
Appearance		Clear to hazy fluid
Viscosity at 25°C (77°F)	cSt	4000
Specific gravity at 25°C (77°F)		0.96
Flash point (Cleveland open-cup)	°C	132
	°F	270
Cyclotetrasiloxane (D4) content	%	< 0.1
Cyclopentasiloxane (D5) content	%	< 0.1

**Description**

DOWSIL™ 8500 Conditioning Agent is an amino glycol copolymer. It combines the substantive conditioning of an amino silicone with the low yellowing and ease of formulation of a silicone glycol.

**Benefits**

DOWSIL™ 8500 Conditioning Agent has demonstrated superior conditioning effects on hair due to its unique chemical structure. This unique chemical structure allows for the combined benefits of a hydrophobic material with the ease of formulation with no additional solubilizers.

DOWSIL™ 8500 Conditioning Agent can be added to clear or opaque shampoo formulations without the need for pre-emulsification or the use of other suspending agents. It can be heated and added at any stage of the manufacturing process.

DOWSIL™ 8500 Conditioning Agent has an excellent compatibility with cyclopentasiloxane and isododecane, and partial compatibility with ethanol, making it an excellent candidate for anhydrous systems such as fixatives and leave-in products.

DOWSIL™ 8500 Conditioning Agent is also easy to formulate in hydrous systems such as rinse-off conditioners and can be added at the beginning or at the end of the process. When DOWSIL™ 8500 Conditioning Agent is exposed to temperatures below 20°C (68°F) the product will freeze and form white solid particles and eventually solidify. This is a reversible phenomenon and should not affect product performance. It can be melted by heating above 25°C (77°F).

**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 25°C (77°F) in the original unopened containers, this product has a usable life of 18 months from the date of production.

**Packaging  
Information**

This product is available in 18 kg jerry cans and 190 kg drums.

Samples are available in 500 ml.

**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](http://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

**NOTICE:** No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

