



Technical Data Sheet

DOWSIL™ MC 8251 Polymer

FEATURES & BENEFITS

- Soft feel
- Microemulsifiable

Amino functional silicone polymer

APPLICATIONS

- Suitable for formulation into a microemulsion which can be applied by padding or exhaustion

TYPICAL PROPERTIES

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

Test	Property	Unit	Result
CTM 01768	Appearance		Clear to hazy
CTM 0050	Viscosity at 25°C	cst	1000–1700
CTM 0094	Nitrogen Content	%	0.7–0.9

CTM: Corporate Test Method, copies of CTM's are available on request.

DESCRIPTION

DOWSIL™ MC 8251 Polymer is a medium viscosity fluid designed for use as a base in the formulation of textile softeners.

DOWSIL MC 8251 Polymer, when applied on fabrics, gives good, soft handle on different substrates, especially cotton, nylon, polyester, and their blend, knits or woven. The effects achieved vary with formulation and use level.

HOW TO EMULSIFY

DOWSIL MC 8251 Polymer can be easily emulsified into stable emulsion. High shear force mixer is recommended for emulsification.

Typical Formulation:

	Weight Parts (I)	Weight Parts (II)
MC 8251	20	
Ecosurf EH 9*	8	
Ecosurf EH 14	2	
Butyl Carbitol	2	
Acetic Acid	0.1	0.15
Pre Water	4	6
Dilution Water	45	12.75

*Ecosurf EH is a trademark of Dow Chemical Company

Procedure:

1. Add DOWSIL MC 8251 Polymer and EcoSurf EH 9 & 14 surfactant into a tank. Agitate at high speed for 10 minutes.
2. Add pre-water (I) and acetic (I). Agitate at high speed for 10 minutes.
3. Add pre-water (II). Agitate at high speed for 10 minutes.
4. Add slowly 45 parts of dilution water (I). Agitate at high speed for 20 minutes.
5. Add 12.75 parts of dilution water (II) with Butyl Carbitol (I) and acetic acid (II). Agitate at low speed for 10 minutes until a homogeneous emulsion is reached.
6. Filter and package.

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
WWW.CONSUMER.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 32°C (90°F) in the original unopened containers this product has a usable life of 12 months from the date of production.

**PACKAGING
INFORMATION**

DOWSIL MC 8251 Polymer is available in 200 kgs containers, net weight.

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, www.consumer.dow.com or consult your local Dow representative.

**LIMITED WARRANTY
INFORMATION – PLEASE
READ CAREFULLY**

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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DOWSIL™ MC 8251 Polymer

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