



Technical Data Sheet

DOWSIL™ BY 25-337 Silicone Emulsifier

INCI Name: PEG/PPG-19/19 Dimethicone (and C13-16 Isoalkane (and) C10-13 Isoalkane

Features & Benefits

- Water-in-oil and water-in-silicone emulsifier
- Crystal clear
- Low odor
- Allows the preparation of:
 - Clear, soft to hard silicone gels
 - Pigmented silicone gels
 - Low to high water content W/Si emulsions
 - Emulsions with mixed oil phases (oil + silicone)
- Texture (thickening) enhancer for W/O and W/Si systems

Composition

- 50% silicone polyether

Applications

- Emulsifier for water-in-oil and water-in-silicone emulsions.
- Can be used in a wide range of personal care applications such as:
 - Skin care
 - Color cosmetics
 - Sun care
 - Hair care
 - Antiperspirants/deodorants

Typical Properties

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

Property	Unit	Result
Appearance		Clear viscous liquid
Viscosity	mPa.s	1,500–9,000
Specific gravity		0.87
Non-volatile content	%	50
Flash point – closed cup	°C	82.5
Refractive index		1.43

Description

DOWSIL™ BY 25-337 Silicone Emulsifier is a crystal clear 50% dispersion of a high molecular weight silicone surfactant (polyoxyethylene/polyoxypropylene copolymer) in Isoparaffin.

It is designed to prepare clear gels of low viscosity silicone fluids such as Dimethicone, Caprylyl Methicone (DOWSIL™ FZ-3196 Fluid) but also with organics such as Isododecane, Isohexadecane.

DOWSIL™ BY 25-337 Silicone Emulsifier can also be used to prepare water-in-silicone or mixed oil phases emulsion systems to deliver both non-polar and polar ingredients.

How to Use

Stable water-in-oils emulsions can be prepared by slowly adding water to the oil phase using a variety of common mixing devices.

The oil phase should be prepared first by mixing DOWSIL™ BY 25-337 Silicone Emulsifier with the selected low viscosity silicone fluid.

Clear gels can be made by adding a small amount of water.

**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**

540 days from the date of production.

**Packaging
Information**

This product is available in 16 kg pails and 160 kg drums.

Samples are available in 100 g 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.

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