



DOWSIL™ BY 25-320

INCI NAME: C13-16 Isoalkane (and) Dimethicone (and) C10-13 Isoalkane

Features & Benefits

- Film forming
- Non-occlusive
- Provide superior hair gloss
- Good compatibility with organic oil
- Good hair conditioning properties
- Hair split-ends repair
- Film barrier properties
- Wash off resistance
- Long lasting

Applications

Areas of potential use for DOWSIL™ BY 25-320 encompass a wide range of cosmetic and toiletry applications such as:

- Skin care
- Hair care
- Sun care
- Color cosmetics

Typical Properties

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

Property	Unit	Result
Appearance		Clear viscous liquid
Non-volatile content	%	16–24
Viscosity at 25°C (77°F)	mm ² /s	10,000
Refractive index at 25°C (77°F)		1.432
Flash point	°C	83
Cyclotetrasiloxane (D4) content	%	< 1

Description

DOWSIL™ BY 25-320 is a clear viscous liquid, where approximately 20% of an ultra high viscosity dimethicone gum is dispersed into iso-paraffin.

How to Use

Emulsion Products

DOWSIL™ BY 25-320 can be incorporated directly into the oil phase of the formulations with high speed mixing. As it is volatile, it should be added slowly below 60°C (158°F) after the formation of the emulsion using a high shear mixer.

Non-emulsion Products

It is advised to add cosmetic ingredients to DOWSIL™ BY 25-320 and not vice versa, to avoid the dimethicone gum precipitating out of the solution due to an incompatibility with other cosmetic ingredients. Recommended use level is from 5 to 15% in skin care products and up to 40% in hair care applications such as split ends repair products.

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 32°C (90°F) in the original unopened containers, this product has a usable life of 18 months from the date of production.

Packaging Information

DOWSIL™ BY 25-320 Fluid is available 15 or 16 kg pails.

It is also available in 100 g samples.

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.

Compatibility

Type of Material	Unit
Water	I
Propylene Glycol	I
Ethanol (200 Proof)	Up to 12%
Octyl Methoxycinnamate	Up to 22%
Hydrocarbons	
Mineral oil	Up to 25%
Isododecane	C
Isohexadecane	C
Isoparaffin	C
Oils	
Sunflower oil	Up to 12%
Esters	
C12-C15 Alcohol Benzoate	Up to 25%
Capric / Caprylic Triglycerides	Up to 25%
Isopropyl Myristate	C
Isopropyl Palmitate	C
Silicones	
Dimethicone (All Viscosities)	C
Cyclopentasiloxane	C
Caprylyl Methicone	C

C: Compatible all ratios, I: Incompatible all ratios,

Up to: x% of the tested materials is compatible with the remaining % of DOWSIL™ BY 25-320

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