

◀ DUPONT ▶

Liveo™

# DuPont™ Liveo™ silicone technologies for topical applications

Improve the efficacy and compliance of your topical formulations with DuPont's versatile range of silicone ingredients



The DuPont™ Liveo™ Topical Ingredient product range is composed of silicone-based materials that allow you to formulate innovative solutions in topical forms such as creams, lotions, gels, ointments, sprays or sticks.

Benefiting from more than 70 years of experience in designing silicone-based systems, DuPont will help you accelerate the development of your new topical galenic forms by providing test data that demonstrates functional benefits, such as *in-vitro* drug delivery data based on drug models, occlusivity levels and substantivity profiles.

DuPont™ Liveo™ silicone-based technologies enable unique formulations, making your finished dosage forms easier to apply and more pleasant to use, thereby helping to increase patient compliance. Formulations with silicone material also offer functional film characteristics and long-lasting effects that are well-adapted for different skin diseases. In terms of patients' compliance with treatment, the optimized efficiency of drug delivery and the behavior of silicone-containing formulations on skin can lead to better perceived efficacy and a more pleasant sensory feel, encouraging greater compliance.

# Topical pharmaceutical excipient product range

## DuPont™ Liveo™ Fluids

	Product	Chemical description	Appearance	Function(s) & application(s)	Features
Silicone fluids for consumer healthcare	DuPont™ Liveo™ TI-1050 Silicone Fluid (0.65 cSt) <sup>(1)</sup>	Hexamethyldisiloxane or Disiloxane	Clear liquid	• Volatile solvent	<ul style="list-style-type: none"> <li>• Fast evaporation rate</li> <li>• Carrier for spray</li> <li>• Spreading agent</li> <li>• Smooth feel; non-greasy</li> </ul>
	DuPont™ Liveo™ TI-1050 Silicone Fluid (1.0 cSt) <sup>(1)</sup>	Trisiloxane			
	DuPont™ Liveo™ TI-1050 Silicone Fluid (1.5, 2.0 cSt) <sup>(1)</sup>	Dimethicone			
	DuPont™ Liveo™ TI-1050 Silicone Fluid (5, 10, 20, 50, 100, 350, 1000 cSt) <sup>(1)</sup>	Dimethicone	Clear, colorless liquid	<ul style="list-style-type: none"> <li>• Spreading agent</li> <li>• Lubricant</li> <li>• Emollient</li> </ul>	<ul style="list-style-type: none"> <li>• Non-occlusive</li> <li>• Substantive</li> <li>• Water repellency</li> <li>• Non-greasy feel on skin</li> </ul>
	DuPont™ Liveo™ TI-1050 Silicone Fluid (12,500; 30,000; 100,000 cSt) <sup>(1)</sup>	Dimethicone			
Regulated silicone fluids	DuPont™ Liveo™ Q7-9120 Silicone Fluid (20; 100; 350; 500; 1,000; 12,500 cSt) <sup>(1)(2)</sup>	Dimethicone	Clear, colorless liquid	<ul style="list-style-type: none"> <li>• Non-volatile solvent</li> <li>• Emollient</li> <li>• Lubricant</li> <li>• Spreading agent</li> </ul>	<ul style="list-style-type: none"> <li>• Skin protectancy; substantivity on skin</li> <li>• Lubrication and spreadability</li> <li>• Non-occlusive</li> <li>• Water repellent</li> <li>• Smooth feel</li> </ul>
	DuPont™ Liveo™ Dimethiconol 40 <sup>(1)</sup>	Dimethiconol	Clear liquid	<ul style="list-style-type: none"> <li>• Solvent</li> <li>• Solubilizer</li> <li>• Lubricant</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent spreading agent</li> <li>• Lubricant</li> <li>• Compatible with hydrophilic actives</li> <li>• Non-greasy</li> </ul>

<sup>(1)</sup>Low cyclosiloxanes content (below 0.1%), which is below the substance of very high concern (SVHC) threshold proposed by REACH regulation (EC) No1907/2006.

<sup>(2)</sup>Tested according to and complies with USP-NF non-parenteral requirements for Dimethicone and with all EP requirements for Dimethicone monograph.



## DuPont™ Liveo™ Gum Blends, Crosslinked Polymer Blends, Resin Blends & Resin Crosspolymer Blend

	Product	Chemical description	Appearance	Carrier	Function(s) & application(s)	Features
Gum blends	DuPont™ Liveo™ Dimethiconol Blend 20 <sup>(1)</sup>	Dimethicone and Dimethiconol	Clear liquid	Dimethicone, 20 cSt	• Film-former	<ul style="list-style-type: none"> <li>• Long-lasting after-feel</li> <li>• Gives silky-smooth, non-greasy after-feel</li> <li>• Non-occlusive</li> <li>• Film-forming agent</li> <li>• Improves spreadability</li> </ul>
	DuPont™ Liveo™ Silmogen Carrier <sup>(1)</sup>	Hexamethyl-disiloxane and Dimethiconol		Hexamethyl-disiloxane	• Film-former in volatile solvent	<ul style="list-style-type: none"> <li>• Long-lasting after-feel</li> <li>• Quick evaporation rate</li> <li>• Film-forming agent</li> </ul>
Crosslinked polymer blends	DuPont™ Liveo™ TE-9320 Silicone Elastomer Blend <sup>(1)</sup>	Dimethicone and Dimethicone Crosspolymer	Translucent gel	Dimethicone, 2 cSt	<ul style="list-style-type: none"> <li>• Rheology modifier</li> <li>• Sensorial agent</li> </ul>	<ul style="list-style-type: none"> <li>• Silky aesthetic properties: smooth, dry feel</li> <li>• Matte effect; reduced shine on skin</li> <li>• Rheology modifier to adjust formulation consistency; thickener for silicone-containing formulations</li> <li>• Non-occlusive</li> </ul>
	DuPont™ Liveo™ TE-9330 Silicone Elastomer Blend <sup>(1)</sup>	Dimethicone and Dimethicone Crosspolyme		Dimethicone, 5 cSt		
Resin blends	DuPont™ Liveo™ TE-9720 Resin Blend <sup>(1)</sup>	Dimethicone and Trimethylsiloxy-silicate	Clear liquid	Dimethicone, 100 cSt	• Film-former	<ul style="list-style-type: none"> <li>• Film-former (permeable film)</li> <li>• Long-lasting film</li> <li>• Wash-off resistance</li> </ul>
	DuPont™ Liveo™ TE-9721 Resin Blend <sup>(1)</sup>	Caprylyl Methicone and Trimethylsiloxy-silicate		Caprylyl methicone		
	DuPont™ Liveo™ TE-9722 Resin Blend <sup>(1)</sup>	Dimethicone and Trimethylsiloxy-silicate		Hexamethyl-disiloxane	<ul style="list-style-type: none"> <li>• Film-former in volatile solvent</li> </ul>	<ul style="list-style-type: none"> <li>• Quick drying time</li> <li>• Film-former</li> <li>• Long-lasting</li> <li>• Wash-off resistant</li> <li>• Non-tacky film on skin</li> </ul>
	DuPont™ Liveo™ TE-9723 Resin Blend <sup>(1)</sup>	Dimethicone and Trimethylsiloxy-silicate				
Resin crosspolymer blend	DuPont™ Liveo™ TE-9810 Silicone Resin Crosspolymer Blend	Disiloxane and Trimethylsiloxy-silicate/ Dimethiconol Crosspolymer	Clear liquid	Hexamethyl-disiloxane	• Film-former in volatile solvent	<ul style="list-style-type: none"> <li>• Quick drying time</li> <li>• Film-former</li> <li>• Long-lasting</li> <li>• Wash-off resistant</li> <li>• Rub-off resistant</li> </ul>

<sup>(1)</sup>Low cyclosiloxanes content (below 0.1%), which is below the substance of very high concern (SVHC) threshold proposed by REACH regulation (EC) No1907/2006.

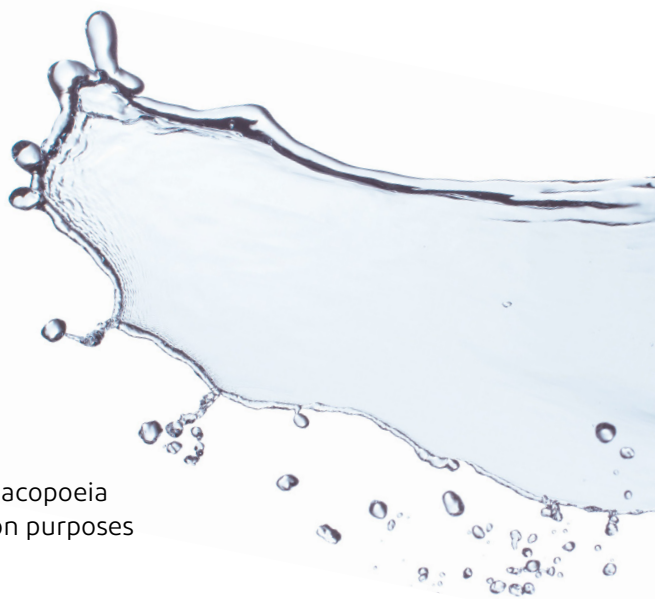
# Supporting your innovation & regulatory compliance needs in healthcare applications

## Functional benefits of DuPont™ Liveo™ Topical Ingredients:

- Enable a variety of product forms (gels, sprays, lotions, creams, etc.)
- Enhanced spreading and sensory aesthetics
- A range of non-occlusive to semi-occlusive ingredients
- Long-lasting effects

## Regulatory support for DuPont™ Liveo™ Topical Ingredients:

- Product regulatory information
- Elemental impurities
- Summary of health data
- Select U.S. FDA drug master files (DMFs) and European Pharmacopoeia Certifications of Suitability (CEP) are available for registration purposes



## About DuPont™ Liveo™

DuPont™ Liveo™ is a globally recognized leader in technology for a broad range of innovations in medical devices, biopharmaceutical processing and pharmaceutical solutions. DuPont high-performance materials help create safer healthcare environments and protect the health of patients and healthcare providers worldwide. We help enable smarter healthcare and positive patient solutions.

## For more information about DuPont™ Liveo™ Pharmaceutical Solutions

Visit [liveo.dupont.com](https://liveo.dupont.com) – or scan the QR code at right to be taken directly to our pharmaceutical solutions web page, where you'll find details on our full portfolio of solutions for oral, topical and transdermal drug delivery.



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