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## Topical Applications

## Trusted sourcing for topical applications

Univar Solutions offers an all-encompassing portfolio of excipients and active pharmaceutical ingredients for over-the-counter (OTC) and prescription (Rx) topical applications. Our specialized chemists and scientists can optimize your formulation at the development stage with exclusive ingredients from renowned suppliers to ensure efficacy and consumer preference for your products. At the same time, our supply chain team can support scaling up and securing high-quality ingredient sourcing to manufacture your products. Leverage our expertise, commitment to quality and unmatched distribution capabilities for your excipients, active pharmaceutical ingredients and innovation needs.

INGREDIENTS	BRAND NAME	PRODUCER
<b>ANTIOXIDANTS</b>		
Butylated hydroxyanisole	BHA	Camlin
<b>EMOLLIENTS</b>		
Decamethyl-cyclopentasiloxane	LST-Elastomer 10	DuPont
Isopropyl myristate		Hallstar
Isopropyl palmitate		Hallstar
Polydimethylsiloxane	Liveo™ Dimethiconol Blend 20	DuPont
Polydimethylsiloxane	Liveo™ Dimethicone Fluid Q7-9120	DuPont
Petrolatum		Calumet Penreco
<b>HUMECTANTS AND LUBRICANTS</b>		
Dimethiconol	Liveo™ ST-Dimethiconol 40	DuPont
Glycerin	Superol®, Optim™	P&G, Olin, Vance Biotechnology
Maltitol	Maltisweet™	Ingredient
Polydimethylsiloxane	Liveo™ Dimethicone Fluid Q7-9120	DuPont
Polydimethylsiloxane 5cSt-100,000cSt	Liveo™ TI-1050	DuPont
Polyethylene glycol (PEG)	Carbowax™ Sentry™	Dow
PEG-12 dimethicone	Liveo™ TI-2011	DuPont
Xylitol		Fustase
MPDiol® Glycol [2-Methyl-1,3-propanediol]	MPDiol® Glycol	Lyondell Basell
Petrolatum		Calumet Penreco
<b>PENETRATION ENHANCERS</b>		
Alcohols	Isopropyl Alcohol, Ethanol	Dow, ExxonMobil, GPC, Equistar
Sodium lauryl sulfate		Stepan
Urea		Avantor, BioSpectra

INGREDIENTS	BRAND NAME	PRODUCER
<b>pH ADJUSTERS</b>		
Citric acid and salts		Tate & Lyle, Jungbunzlauer, Cargill
Phosphoric acid and salts		Innophos
<b>PRESERVATIVES</b>		
Benzalkonium chloride		Dishman, Unilab
Benzoic acid		Avantor, Wuhan Youji, Columbus
Benzyl alcohol		Lanxess (Formerly Emerald Kalama)
Benzyl alcohol Parenteral Grade		Lanxess (Formerly Emerald Kalama)
Methylparaben		Avantor
Potassium benzoate		Lanxess (Formerly Emerald Kalama)
Potassium sorbate		Nantong, Nutrinova
Propylparaben		Avantor
Sodium benzoate		Lanxess (Formerly Emerald Kalama), Wuhan Youji
Sorbic acid		Nantong Acetic Kunda, Nutrinova
<b>SURFACTANTS</b>		
Polysorbates	Alkest TW series	Oxiteno
PEG-10 dimethicone	Liveo™ TI-6021	DuPont
Alkylmethyl silicone polyglycol	Liveo™ ST-Elastomer 10	DuPont
Propylene glycol		Dow, Lyondell
Sodium lauryl sulfate		Pilot, BASF, Stepan
Sorbitan esters	Alkest SP series	Oxiteno

INGREDIENTS	BRAND NAME	PRODUCER
<b>VEHICLE / CONSISTENCY FACTORS</b>		
Cetyl alcohol		Sasol, Cremer, Thai Oleo
Stearyl alcohol		Sasol, Cremer, Thai Oleo
Isopropyl myristate		Hallstar
Isopropyl palmitate		Hallstar
Polyethylene glycol (PEG)	Carbowax™ Sentry™	Dow
Sorbitan esters		BASF, Oxiteno
Dimethiconol and hexamethyldisiloxane	Liveo™ Silmogen Carrier	DuPont
Hexamethyldisiloxane (0.65 cSt)	Liveo™ Q7-9180	DuPont
Octamethyltrisiloxane (1 cSt)	Liveo™ Q7-9180	DuPont
Cyclopentasiloxane	Liveo™ ST-Cyclomethicone 5-NF	DuPont
Cyclopentasiloxane and cyclohexasiloxane	Liveo™ ST-Cyclomethicone 56-NF	DuPont
Gelled hydrocarbons	Versagel®	Calumet Penreco
Mineral oil	Drakeol®	Calumet Penreco
Petrolatum		Calumet Penreco
Solid stick bases	Versastique™	Calumet Penreco
<b>VISCOSITY ENHANCERS / MATRIX FORMERS</b>		
Acacia gum/gum arabic		Import
Aluminum silicate	Veegum®	Vanderbilt
1,3 Butylene Glycol		OQ
Colloidal aluminum silicate	Bentonite – Volclay® NF – BC	American Colloids
Fumed silica	Aerosil®, Cab-o-sil®	Evonik, Cabot
Methylcellulose	Methocel®	DuPont
Microcrystalline wax	Calumet CW-8030K	Calumet
Sodium carboxymethylcellulose	Aqualon™	Ashland
Sodium chloride		Morton, US Salt
Dimethicone crosspolymer	Liveo™ ST-Elastomer 10 and TI-3021	DuPont
Stearic acid		Biogenix, Avantor
C30-45 Alkyldimethylsilyl polypropylsilsesquioxane	Liveo™ TI-4021	DuPont

INGREDIENTS	BRAND NAME	PRODUCER
<b>VISCOSITY ENHANCERS / MATRIX FORMERS (CONT'D)</b>		
Triethanolamine	Trolamine	Ineos
Petrolatum		Calumet Penreco
<b>WATER-MISCIBLE VEHICLES</b>		
Glycerin	Superol®, Optim™	P&G, Dow
Polyethylene glycol (PEG)	Carbowax™ Sentry™	Dow
Propylene glycol		Dow, Lyondell
Sorbitol 70%		Ingredion
<b>FILM FORMERS</b>		
Dimethicone and dimethiconol	Liveo™ Dimethiconol Blend 20 and TI-3011	DuPont
Dimethiconol and hexamethyldisiloxane	Liveo™ Silmogen Carrier	DuPont
Trimethylsiloxy silicate/solid resin	Liveo™ TI-7012	DuPont
Dimethicone and trimethylsiloxy silicate/silicone resin blend	Liveo™ TI-7021	DuPont
<b>SOLUBILIZER/COMPATIBILIZER FOR ACTIVE</b>		
PEG-12 dimethicone	Liveo™ TI-2011	DuPont
Caprylyl methicone	Liveo™ TI-2021	DuPont
Petrolatum		Calumet Penreco



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