



SYLVACLEAR® C75V Specialty Polymeric Gellant

INCI Name: Bis-Stearyl Ethylenediamine/Neopentyl Glycol/Stearyl Hydrogenated Dimer Dilinoleate Copolymer

SYLVACLEAR® C75V is a vegetable derived rheology modifier and water repellency agent for formulation with low-polarity organic liquids for cosmetic and personal care applications. It forms softer gels than SYLVACLEAR® A200V.

Features	Benefits
High bio-based content	Sustainable, not petroleum derived
Hydrophobic nature	Water repellency, gloss enhancer
Gels low polarity liquids	Unique feel, shear thinning, excellent payout
Forms water-in-gelled oil or silicone-in-gelled-oil emulsions	Emulsions formed with or without added surfactant; water phase can contain high active or salt loading
Low molecular weight, functional polymer	Stabilizes pigments; can make hard to stabilize ingredients compatible

Applications

Can be used to make solid gels of non-polar organic liquids such as emollients, mineral oils or esters for lipstick and mascara applications. Can be used to form stable, aesthetically pleasing water-in-gelled oil or silicone-in-gelled oil emulsions.

Excellent water and sweat repellent agent for sunscreens, lotions and balms.

Typical Properties

Bio-based non-petroleum carbon) content, %	97
Softening Point °C, Cup & Ball	80
Color, Gardner	2
Acid Number	22
Amine Number	<1

CASRN	678991-29-2
Packaging	Resin is available in pastille form in fiber drums, 60 lbs net.
Handling & Storage	Resin is soft at room temperature, compaction may occur during storage. To minimize, the resin should be stored in closed drums at room temperature or below. Blooming is a normal phenomenon during long term storage of this resin. It occurs when small amounts of residual terminator migrate onto the flaked resin surface resulting in the appearance of white powdery film. It has no influence on the final performance of the product.



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Product Data Sheet

Sprayable, Water Repellant Organic Sunscreen with SYLVACLEAR® C75V as an SPF Booster

Phase	Ingredient	INCI Name	Control Weight %	SYLVACLEAR® C75V Weight %
A	Water		62.9	57.9
A	Avicel PC611	Microcrystalline Cellulose	0.5	0.5
A	Versene 220, EDTA	Tetrasodium EDTA	0.1	0.1
A	Azemea Propanediol	Propanediol	2.0	2.0
B	Montanov 82	Cetearyl Alcohol Coco-Glucoside	2.0	2.0
B	Sensanov WR	C20-22 Alkyl Phosphate C20-22 Alcohols	1.0	1.0
B	Polycrylene	Polyester-8	2.0	2.0
B	Escalol 587	Ethylhexyl Salicylate (Octisalate)	5.0	5.0
B	Neo Heliopan MA	Menthyl Anthranilate	3.0	3.0
B	UVINUL MC80	Ethylhexyl Methoxycinnamate (Octinoxate)	7.5	7.5
B	UVINUL M40	Benzophenone-3 (Oxybenzone)	3.0	3.0
B	Gemseal 40	C15-19 Alkane	5.0	5.0
B	DC Toray FZ-3196	Caprylyl Methicone	4.0	4.0
B	SYLVACLEAR® C75V	<i>Bis-stearyl ethylenediamine/neopentyl glycol/stearyl Hydrogenated dimer dilinoleate copolymer</i>	0.0	5.0
B	Sepisoft sp	Polymethyl Methacrylate Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer Isohexadecane	1.0	1.0
B	BY-OSC	Tetrahexyldecyl Ascorbate	0.0	0.0
C	Mikrokill COS	Preservative Phenoxyethanol Caprylyl Glycol Chlorphenesin	1.0	1.0

Results of 5 Subject, Water Resistant (40 Minutes) in vivo SPF testing

SPF Initial	16.4	18.2
SPF Boost	---	12.2%
SPF After Wash	15.0	16.6
SPF After Wash, %	---	90%

Manufacturing Instructions:

Phase A	Disperse Avicel into water, mix until all hydrates; add remaining Phase A ingredients, heat to 85°C, mix
Phase B	Combine Phase B ingredients, heat to 85°C, mix until all melts and uniform Both Phase A and Phase B at 85°C, add Phase B to Phase A with agitation, mix Homogenize at 4000 rpm for 2 minutes, switch to anchor mixer, mix while cooling to 35°C
Phase C	At 35° C. add Phase C into batch . mix and continue cooling to 25°C



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