

Cleansing Milk with Vertasil® TM-L01

Vertasil® Limonenyl Trisiloxane TM-L01 is a hybrid fluid derived from Limonene, a natural solvent found in citrus rinds, and siloxane. In cleansers, toners, and in makeup removers, it can be used as multifunctional ingredient – a “green” solvent *and* a cyclopentasiloxane (D5) replacement – that will leave behind a non oily, yet soft and silky after feel.

INCI Name	Ingredient	Supplier	Wt%
Phase A			
Water (Aqua)	Deionized Water		q.s.
Acrylates/C10-30 Alkyl Acrylates Crosspolymer	Carbopol® Ultrez 20	Lubrizol	0.40
Sodium Hydroxide	Sodium Hydroxide Soln (25%)		q.s.
Propandiol	Zemea®	DuPont Tate & Lyle	2.00
Actives			q.s.
Phase B			
Methylcyclohexenyl Isopropyl Trisiloxane	Vertail® TM-L01	Gelest/Paradigm Science	10.00
Isopropyl Myristate	Liponate® IPM	Lipo	5.00
Tocopherol	Vitamin E	DSM	0.75
Polyglyceryl-3 Oleate	PGO-3	Lipo	2.00
Polysorbate 80	Tween® 80	Croda	0.50
Phase C			
Red 40	FD&C Red 40 in Water	Emerald	q.s.
Fragrance	Grapefruit & Wheatgrass	The Lebermuth Co.	0.40
Preservative			0.50
Sodium Hydroxide	NaOH Solution (25%)		q.s.
Citric Acid	Citric Acid Soln (25%)		q.s.
Water (Aqua)	Deionized Water		q.s.
Total			100

Procedure:

- Sift Caropol onto surface of water and allow to hydrate. Mix under propeller blade until dispersed. Adjust pH to 5.5 to thicken. Continue to mix until uniform. Add remainder of Phase A.
- Combine Phase B. Slowly add to Phase A and emulsify.
- In order, add Phase C ingredients and adjust pH to 5.5 if needed.

Formula courtesy of



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