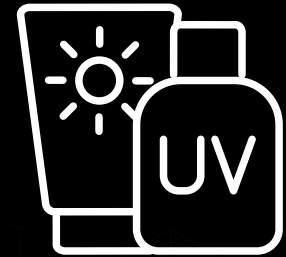


TEN



Finally, a light weight SPF 50+. This high SPF sun protection cream is your skin ally all year around. Apply liberally.

- › **HALLBRITE® EZ-FLO TDX** is an easy-to-use and highly stable dispersion of Titanium Dioxide showing no particle perception and minimal whitening in use.
- › **Vida-Care USB-50+** is a photostable liquid blend of sunscreen actives which provides a broad spectrum UV-A and UVB protection.
- › **SunSpheres™ Powder** is a SPF booster working with broad spectrum organic and inorganic UV filters, while maintaining waterproof characteristics.
- › **Dow Corning® ES 5373 Formulation AID** is a cold-processable O/W emulsifier with very low odor. It supports high oil phase loading and various types of oils.
- › **Dow Corning® FA 4103 Silicone Acrylate Emulsion** is a film former with excellent film flexibility, high wash-off resistance and no tackiness.
- › **Stabil ZERO** is an alternative self-preserving option from Akema not listed in the EU as a preservative. It also has low odor.

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 **UNIVAR®**
PERSONAL CARE

Trade name	INCI name	Function	Supplier	%
Phase A				
	Water (Aqua)	Solvent	Univar*	Q.5
SunSpheres™ Powder	Styrene/Acrylates Copolymer	SPF booster	Dow / Univar*	5.7
Dow Corning® RM 2051 Thickening Agent	Sodium Polyacrylate (and) Dimethicone (and) Cyclopentasiloxane (and) Trideceth-6 (and) PEG/PPG-18/18 Dimethicone	Thickening and stabilizing agent	Dow / Univar*	2.0
Stabil ZERO	Pentylene glycol, Caprylyl glycol, Ethylhexylglycerin	Alternative preservative	Akema / Univar*	1.5
Phase B				
Dow Corning® ES 5373 Formulation AID	PEG-12 Dimethicone	O/W Emulsifier	Dow / Univar*	3.5
	C12-15 Alkyl Benzoate	Emollient – solvent for UV filters	Univar*	10.0
XIAMETER® PMX 200 Silicone Fluid 2 cSt	Dimethicone	Emollient	Dow / Univar*	4.0
HALLBRITE® EZ-FLO TDX	Butyloctyl Salicylate, Titanium Dioxide (nano), Triceteareth-4 Phosphate, Dimethicone Crosspolymer, Silica	Mineral UV filter dispersion	Hallstar / Univar*	5.0
Vida-Care USB-50+	Diethylamino Hydroxybenzoyl Hexyl Benzoate, Ethylhexyl Methoxycinnamate, Octocrylene, Ethylhexyl Triazone, Di-C12-13 Alkyl Malate, Ethylhexyl Salicylate, Diisopropyl Adipate	UV filter blend	Lambson / Univar*	15.0
Phase C				
Blue Ozone SY154959	Fragrance	Fragrance	Kao Fragrances / Univar*	0.1
Dow Corning® FA 4103 Silicone Acrylate Emulsion	Acrylates/Polytrimethylsiloxymethacrylate Copolymer and Laureth-1 Phosphate	Film former, wash-off resistance	Dow / Univar*	4.0

Procedure (Cold process)

1. Disperse the SunSpheres™ Powder into the water and apply high shear (Silverson at 10 000 rpm) for 30 minutes
2. Add the other ingredients of phase A while mixing
3. Mix ingredients of phase B together until homogenous
4. Add slowly phase B to phase A while mixing (800 rpm)
5. Add ingredients of phase C one by one while mixing

Stability

Stable at least 2 months at 4°C, RT and 40°C (still ongoing).

Comments

- SPF 50+ : measured SPF in vitro = 77.8
- Water resistant : wash-off resistance ratio = 78%
- pH = 5.63
- Viscosity (spindle 5; 50 rpm; 1 min) = 3,392 cPs (42.4 %)
- Application: Squeeze out a small amount of cream and massage onto your sun exposed skin (avoid the eye area).
- Off-white thin cream

Campaign: SEVEN | Reference: BE4417 25 | Issued by: Univar's EMEA PC Laboratory in Brussels, Belgium

* Please contact your regional Univar sales representative to ensure that mentioned products are distributed in your country.

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