

#### **Guide Formulation**

# Sunscreen lotion with organic uv absorber and AEROSIL® R 816 (o/w Pickering emulsion)

### AEROSIL® R 816 a versatile stabilzer for emulsion with a non-sticky skin feel

PHASE	INGREDIENTS	INCI NAME	% w/w	FUNCTION
1		Butyl Methoxydibenzoylmethane	3.0	UV-absorber
		Homosalate	10.0	UV-absorber
		Ethylhexyl Salicylate	5.0	UV-absorber
		Octocrylene	4.0	UV-absorber
		Benzophenone-3	5.0	UV-absorber
	TEGOSOFT® CT	Caprylic/capric triglyceride	10.0	Emollient
		Xanthan gum	0.1	Thickener
2		Water	a.d. 100	Water
	AEROSIL® R 816	Silica cetyl silylate	3.0	Stabilizer
	SIPERNAT® 11 PC	Hydrated silica	2.0	Sensory modifier
		Glycerin	2.0	Humectant
		Phenylpropanol (and) Propanediol (and) Caprylyl Glycol (and) Tocopherol	1.0	Preservative
		Total	100.0	

**Note:** Increase mixing speed and time if necessary; xanthan gum needs to be pre-wetted in oil phase.

#### **PROCESSING**

- Weigh out each ingredient
- Dispermat mix phase 1 at 2000 rpm for 5 minutes
- Slowly wet and disperse silica into phase 2 at 1000 rpm and then increase speed to 2300 rpm mixing for 5 mins
- Homogenize under vacuum

Note: All formulations have been subjected to stability tests and have been shown to perform well. However, formulators should always perform their own stability tests when adapting formulations and / or using raw materials from other sources.

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