

Starting point formulation – Sun protection cream – light control

Sun protection cream with zinc oxide as UV filter and RHEOBYK-7590 PC that stabilizes particles and gives texture. The formula offers comprehensive protection against UV radiation and other sun damage.

Formulation

Phase	Tradename	INCI	Supplier	Function	Dosage (%)
A	Hydriol PGO	Polyglyceryl-4 Oleate	Hydriol	Emulsifier	2.50
	Neocare P3R	Polyglyceryl-3 Polyricinoleate, Polyglyceryl-3 Ricinoleate	Gobiotics	Emulsifier	1.50
	Kahlwax 2811 Rice	Oryza Sativa Bran Cera	Kahl	Stabilizer	2.00
	RHEOBYK-7590 PC	Trihydroxystearin	BYK	Rheology modifier	1.00
	VegeLight 1218	Coconut Alkanes	Biesterfeld	Emollient	5.00
	Isopropyl Palmitate	Isopropyl Palmitate	BASF	Emollient	5.00
	Magnesium Stearate	Magnesium Stearate	VWR	Stabilizer	0.30
	TEGOSOFT Liquid	Cetearyl Ethylhexanoate	Evonik	Emollient	4.50
	euxyl PE 9010	Phenoxyethanol, Ethylhexylglycerin	Ashland	Preservative	0.80
B	Zinc Oxide DAB 10	Zinc Oxide	Merck	UV filter	10.00
C	Water	Aqua	-	Carrier	64.00
	Magnesiumsulfat Heptahydrat reinst	Magnesium Sulfate	Carl Roth	Stabilizer	0.70
	Glycerin 85 %	Glycerin	VWR	Moisturizer	2.50
D	Bright Sakura	Parfum	Bell	Fragrance	0.20
Total					100.00

Instructions (manufacturing procedure)

- Weigh in the ingredients of phase A and heat up to approx. 80 °C. Then add phase B while stirring well.
- Combine the ingredients of phase C and heat up to 80 °C.
Add the aqueous phase C to phase A/B within approx. 20 min while stirring.
- Hold the temperature at least at 70 °C. Then homogenize (10,000 rpm/2 min).
- Cool down while stirring (IKA paddle stirrer) to 55 °C, then add phase C.
- Cool down while stirring and add phase D below 30 °C.

Characteristic data

- Appearance: white, high viscous.
- Storage stability: 3 months at 40 °C.

RHEOBYK-7590 PC is a castor oil derivative suitable for natural cosmetics and recommended for the stabilisation of W/O emulsions.



Your local contact

BYK-Chemie GmbH
Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

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