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 **ErcaWilmar**
Cosmetic Ingredients
www.erca-wilmar.com

ERCAGREEN Polyglyceryl Esters

PEG-Free
Non ionic emulsifiers and mild surfactants

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**FORMULATION EXAMPLE:
SOFT BODY CREAM**

ERCAGREEN
Polyglyceryl Esters

PEG-Free
Non ionic emulsifiers and mild surfactants

	INCI NAME	FORM	HLB
ERCAGREEN 3S	POLYGLYCERYL-3 STEARATE	FLAKES	7
ERCAGREEN 4O	POLYGLYCERYL-4 OLEATE	VISCOUS LIQUID	4
ERCAGREEN 10L	POLYGLYCERYL-10 LAURATE	VISCOUS LIQUID	15
ERCAMULS GREEN	CETEARYL ALCOHOL, POLYGLYCERYL-3 STEARATE, POLYGLYCERYL-10 LAURATE	FLAKES	9

DESCRIPTION

- Obtained by esterification of polyglycerol and fatty acid
- From raw materials 100% plant origin
- Highly compatible with different emollients, silicones, and co-emulsifiers
- Sustainable
- Provide pleasant skin feel

APPLICATIONS

- All type of toiletries
- Baby care products
- Body/Sun/Hand care products
- Liquid soap, handwashes

	INGREDIENT	%
Phase 1 Heat to 80°C while stirring.	ERCAGREEN 3S (Polyglyceryl-3 Stearate)	0,50
	ERCAGREEN 4O (Polyglyceryl-4 Oleate)	1,00
	ERCAWAX CE V (Glyceryl Stearate Citrate)	1,50
	ERCANOL CS 30/70 V (Cetearyl Alcohol)	1,00
	ERCAREL ISN (Isononyl Isononanoate)	8,00
	ERCAREL TCC V (Caprylic/Capric Triglyceride)	4,00
Phase 2 Heat to 80°C while stirring. Add phase 1 to phase 2 with high agitation for emulsifying. Cool down to room temperature while stirring.	Tocopheryl Acetate	0,50
	Water (Aqua)	Q.B. TO 100
	Sodium Phytate, Aqua, Alcohol	0,10
Phase 3 Add to Phase 1+2 at room temperature and adjust the pH to 5,5 - 6,5.	Lysolecithin, Sclerotium Gum, Xanthan Gum, Pullulan	0,50
	Parfum - Expressions Parfumées	0,50
	Preservative System	Q.B.
	pH Adjuster	Q.B.

**ERCAGREEN
ADDITIONAL INFORMATION**

- **3S**: Emulsifier for O/W emulsions.
- **4O**: Emulsifier for W/O emulsions.
- **10L**: Mild surfactant for toiletries.
- **GREEN**: Self emulsifying O/W base.

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