



BEAUTÉ BY ROQUETTE® DS 146

Beauté by Roquette® DS 146 is a natural O/W sensory emulsifier system.

It is a ready-to-use powder, convenient for cold process and suitable for a wide range of cosmetic products.

Beauté by Roquette® DS 146 is very efficient in emulsions containing a high level of oil or sunscreens. This natural emulsifier system provides a dry & smooth skin feel.

BENEFITS AT A GLANCE:

- Ready-to-use emulsifier system
- Cold process
- Efficient even with a high level of oil (up to 60%)
- Efficient with a high level of sunscreens
- Dispersible into both water or oil phase
- Dry & smooth skin feel

INCI NAME:

Cyclodextrin & Sorbitol & Polyglyceryl-3 diisostearate

PHYSICAL ASPECT:

White powder

ORIGIN:

Plant-based ingredients

SPECIFIC FEATURES:

- O/W emulsifier
- Non-ethoxylated system
- Biodegradable
- Compatible with mineral or chemical UV filters
- Emulsifies all types of oils (ester, mineral, vegetable, silicone)
- Variety of texture (spray, lotion, cream)

VISCOSITY OF EMULSIONS BASED ON BEAUTÉ BY ROQUETTE® DS 146 (35% OIL PHASE)

pH 4	pH 5	pH 7	pH 9.5	pH 10	2% NaCl	2% CaCl
7 800 mPa.s	7 800 mPa.s	8 000 mPa.s	6 700 mPa.s	6 300 mPa.s	10 000 mPa.s	10 700 mPa.s

-The viscosity of the emulsion appears non pH dependent and stable over a wide pH range (4 to 12)

-The viscosity increases with the addition of salts (CaCl and NaCl) at a pH of 6.5.

BEAUTÉ BY ROQUETTE® DS 146	6%		
	20%	40%	60%
OIL PHASE			
PRUNUS AMYGDALUS DULCIS OIL	++	+++	+++
ISOHEXADECANE	++	+++	+
ISOPROPYL MYRISTATE	++	+	-
DICAPRYLYL ETHER	++	+	-
DIMÉTHICONE 350	-	++	+++
CYCLOPENTASILOXANE	++	+++	+++

+++ : stable for 3 months at RT, 40°C & 50°C

++ : stable for 1 month at RT, 40°C & 50°C

+ : unstable after 1 month at 40°C & 50°C

- : unstable after 1 month at RT, 40°C & 50°C

Formula tested: Beauté by Roquette® DS 146 at 6%/Oil Qs/Xanthan gum 0,3%/Water Qsp 100%

RECOMMENDED APPLICATIONS:

Skin care, Sun care, Colour cosmetics

USAGE LEVELS:

2 - 8%

pH OF USE:

4 - 12

APPLICATION GUIDELINES:

Can be incorporated into both the water or oil phase

ISO/CERTIFICATION:

ISO 16128 natural origin Index (Ino): 0.99

REGULATORY STATUS:

Conform to:

Europe - European Cosmetic Regulation
1223/2009 and its amendments

China - Hygienic Standard for Cosmetics:
listed IECIC 2015

USA - FD&C Act – 21 CFR 700 to 740

Japan - Japanese Pharmaceutical Affairs Law –
Regulation for cosmetics

Non exhaustive list of countries, please contact us for additional information.

FORMULATION EXAMPLE:

BODY BALM

<u>PHASE A1</u>	AQUA (WATER)	Up to 100 %
<u>PHASE A2</u>	XANTHAN GUM	0.30 %
	GLYCERIN & PHENOXYETHANOL & CHLORPHENESIN	1.00 %
	GLYCERIN	3.00 %
<u>PHASE A3</u>	BEAUTÉ BY ROQUETTE® DS 146	6.00 %
<u>PHASE B</u>	GLYCINE SOJA (SOYBEAN) OIL	15.00 %
	C10-18 TRIGLYCERIDES	15.00 %
	DICAPRYLYL ETHER	20.00 %
	TOCOPHEROL & BETA-SITOSTEROL & SQUALENE	0.02 %
<u>PHASE C</u>	FRAGRANCE	0.20 %

PROCESS

1/ Heat up phase B to 40°C - 50°C under stirring

2/ Heat up phase A1 to 40°C - 50°C and add pre-mix A2 under stirring

3/ Add phase A3 and stir for 20 minutes

4/ Emulsify phase B into phases A1/A2/A3 under stirring for 10 minutes. Under cold water bath, continue to emulsify for 20 minutes at medium-speed to stay at a temperature below 40°C

5/ Add phase C under stirring

FORMULATION SPECIFICATIONS

ASPECT / COLOUR / ODOUR	WHITE PERFUMED CREAM
pH	AROUND 6.5
VISCOSITY	BROOKFIELD, SP5, 20 rpm, 1 MIN: AROUND 12 000 mPa.s
STABILITY AT 40°C & 50°C	1 MONTH (IN PROGRESS)