

## BEAUTÉ BY ROQUETTE® DS 146

Beauté by Roquette® DS 146 is a natural O/W 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%) and a low level of oil (sprayable)
- Efficient with a high level of sunscreens
- Dry & smooth skin feel

### INCI NAME:

Cyclodextrin, Sorbitol, Polyglyceryl-3 diisostearate

### PHYSICAL ASPECT:

White powder

### ORIGIN:

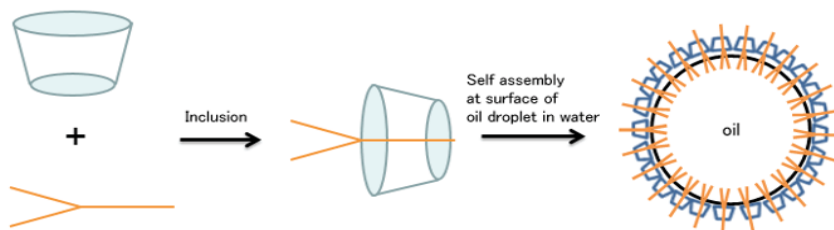
Plant-based ingredients



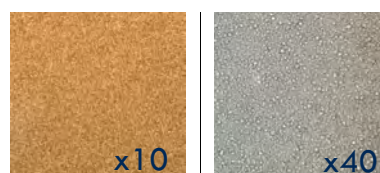
Iso\* = 100%

### A NEW SYSTEM OF EMULSIFICATION

innovative technology using a cyclodextrin and a polyglycerol ester acting in synergy to create stabilizing layers of self-assembled molecular inclusion compounds at the oil/water interface.



With 4% of Beauté by Roquette® DS 146 a very stable & extra fine emulsions is obtained (15% of vegetal oil).

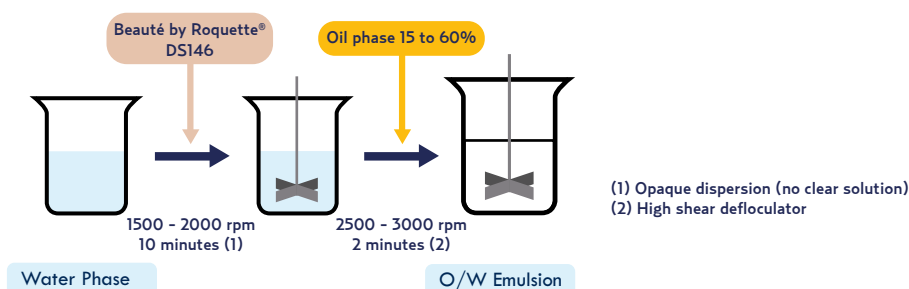


## APPLICATION GUIDELINES:

- To incorporate preferentially in the water phase
- Avoid an emulsifying temperature above 45°C

## Cold process

(from RT to 45°C)



## SPECIFIC FEATURES:

- O/W emulsifier
- Non-ethoxylated system
- Compatible with mineral or chemical UV filters
- Emulsifies all types of oils (ester, mineral, vegetable, silicone)
- Variety of texture (spray, lotion, cream)
- Non pH dependant
- Stable over a wide pH range (4 to 10)

## RECOMMENDED APPLICATIONS:

Skin care, Sun care, Colour cosmetics

## RECOMMENDED USE LEVELS:

2 - 8%

## pH OF USE:

4 to 10

## FORMULATION EXAMPLE:

Emulsion to oil SPF 50 - SU-002-003

	INCI NAME	COMMERCIAL NAME (SUPPLIER)	% W/W
<b>PHASE A</b>	Aqua	Demineralised water	Up to 100
	Xanthan gum	Keltrol (CP Kelco)	0.50
	Cyclodextrin, Sorbitol, Polyglyceryl-3 diisostearate	Beauté by Roquette® DS 146 (Roquette)	4.00
<b>PHASE B</b>	Prunus amygdalus dulcis oil	Amande douce (Cooper)	23.00
	Ethylhexyl Triazone	Uvinul T 150 (BASF)	5.00
	Homosalate	Eusolex HMS (Rona/Merck)	5.00
	Ethylhexyl Methoxycinnamate	Eusolex 2292 (Rona/Merck)	5.00
	Diethylamino Hydroxybenzoyl Hexyl Benzoate	Uvinul A plus (BASF)	4.00
	Bis-Ethylhexyl Methoxyphenyl Triazine	Tinosorb S (BASF)	8.00
<b>PHASE C</b>	Phenoxyethanol, Chlorphenesin, Glycerin	Microcare® PHC (Thor)	1.00

## PROCESS

- 1/ At 40°C, disperse Xanthan gum in aqua until complete dispersion and add Beauté by Roquette® DS 146 (1000rpm during 20mins),
- 2/ Prepare phase B and mix with gentle agitation at 40°C,

- 3/ Add phase B into phase A under strong agitation (3000 rpm during 10mins),
- 4/ Allow to cool down to room temperature while stirring gently,
- 5/ Add phase C.

## FORMULATION SPECIFICATIONS

ASPECT	Slightly yellow emulsion
pH	6.3 - 6.7
VISCOSITY	Brookfield, SP4, 20 rpm, 1min: 9 000 - 10 000 mPa.s
STABILITY	1 month at 50°C and 3 months at room temperature and 40°C