

A close-up photograph of a person's back and shoulder. A hand with light-colored, pearlescent nail polish is resting on the person's shoulder. The skin is fair and appears to have a light, creamy product applied to it. The background is softly blurred, showing more of the person's back and hair.

TECHNICAL DATA SHEET

CosmeGreen MB1618

SURFACTGREEN

Performing Surfactants from
nature is our DNA

CATIONIC SURFACTANT HAIR & SKIN CONDITIONING AGENT - GLYCINE BETAIN ESTER



Hydrophilic part



Hydrophobic part
from Vegetable Oil

INCI : Cetearyl Alcohol and Cetearyl Betainate Mesylate

CHARACTERISTICS

- 99% Bio-sourced
- Easy to Formulate
- Recommended pH 3-5
- Adapted for Emulsions and Solids
- No competition with human food chain

GREEN CHEMISTRY

- No solvent
- RSPO Palm
- One Pot, No Waste Process
- Readily Biodegradable



Made in France



Chain Length	C16 - C18
State	Pellets
% active material	25 - 35 %
% Fatty alcohol	>60%
Melting point	60 - 65 °C
Colour	White - light yellow
Smell	Neutral
Recommended pH	<6
% of use	4 - 80 %
Storage conditions	Cool and dry place
Shelf life	18 months

COSMEGREEN MB1618

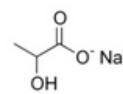
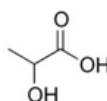
- Material readily biodegradable: 94% within 28 days (OECD 301B)
- Low ecotoxicity ingredient EC50 (48H) Daphnia (OECD 202) = 83,8 mg/L
- Natural origin index = 0,99 according to ISO 16128

O/W EMULSIFICATION PROCESS

BUFFER SOLUTION

Buffer Solution	% m/m
Sodium Lactate	31,5% (AM)
<u>Lactic Acid</u>	18,5% (AM)
Water	to 100%
pH	4,3

For maximum performance, the formula must contain a lactic acid and sodium lactate buffer solution. This buffer solution must be added regardless of the pH conditions observed.



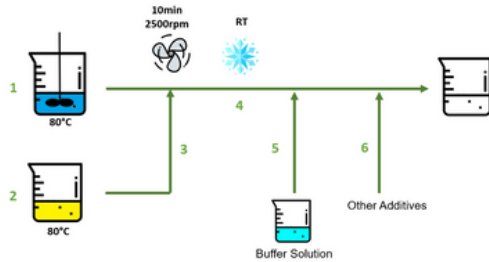
COMPATIBLE WITH

- Non-ionic polysaccharides, oils, silicones
- Sodium gluconate, Sodium lactate

INCOMPATIBLE WITH

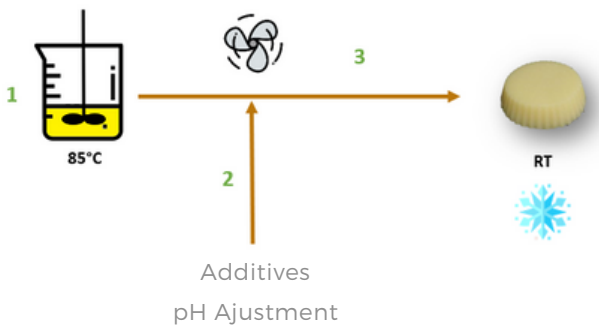
- Xanthan gum, Sodium alginate, Cellulose gum
- Soda, Sodium citrate

MANUFACTURING METHOD - EMULSION



1. Heat the water phase to 80°C.
2. Add CosmeGreen MB1618 to the oily phase and heat to 80°C.
3. At 80°C, slowly add the oily phase to the water phase while strongly mixing. Avoid air getting into the mixture. Continue mixing at the same temperature for 10 minutes.
4. Cool to room temperature while gently stirring.
5. Make a buffer solution from sodium lactate and lactic acid. Add 4% to the emulsion (regardless of pH).
6. Add preservatives, fragrance and other additives.

MANUFACTURING METHOD - SOLID



1. Add all ingredients and heat to 85°C
2. Add the buffer solution while mixing
3. Pour the mixture into molds and let it cool

Note:

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