



CATALYST SURFACTGREEN

Performing Surfactants from nature is our DNA



CATIONIC SURFACTANT HAIR CARE CONDITIONER



Hydrophilic part from sugar beet

Hydrophobic part from rapeseed

INCI : Arachidyl/Behenyl Betainate Esylate (and) Arachidyl/Behenyl Alcohol

CHARACTERISTICS

- Raw Materials 100% Biosourced
- Easy to formulate
- Recommended pH 3-5
- Adapted for Emulsion and Solid
- No competition with human food chain

GREEN CHEMISTRY



- No solvent
- Palm oil free
- No waste
- Readily Biodegradable
- No danger pictogram
- One pot process and no waste

Made in France



Certifications



COSMOS



NATRUE

Chain Length	C18-C22
State	Pellets
% Active material	20-35%
% Brassica alcohol	>60%
Melting point	70-76°C
Colour	White – Light yellow
Smell	Neutral
Recommended pH	< 5
% of use	4-80%
Storage conditions	Cool and dry place

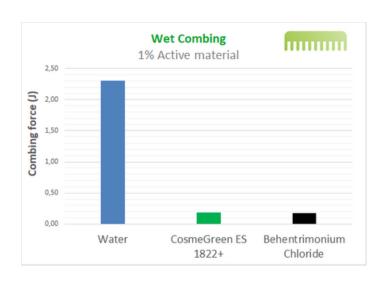


COSMEGREEN ES1822+

- Material readily biodegradable: 94% within 28 days (OECD 301B)
- Low ecotoxicity ingredient EC50 (48H) Daphnia (OECD 202) = 83,8 mg/L
- Natural origin index = 1, according to ISO 16128

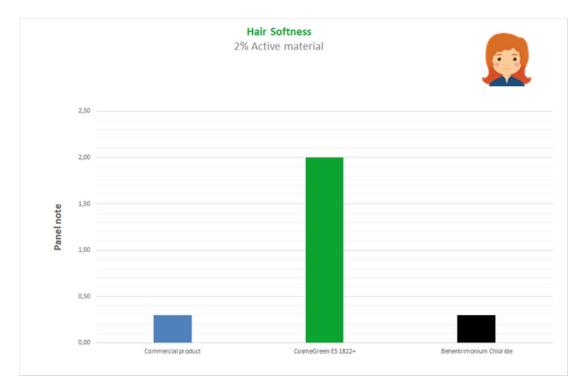
EFFICIENCY TESTS

As effictive as behentrimonium chloride...





...and much softer





O/W EMULSIFICATION PROCESS

BUFFER SOLUTION: THE ESSENTIAL ALLY

Buffer Solution	% m/m
Sodium Lactate	31.5% (MA)
Lactic Acid	18.5 (MA)
Water	Qsp 100%
pH	4.3

For CosmeGreen ES1822+ to deliver its full performance, the environment must contain a lactic acid and sodium lactate buffer solution.

This buffer solution must be added regardless of the pH conditions observed.



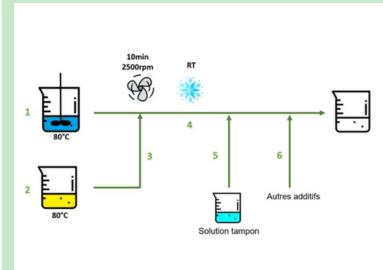
COMPATIBILITIES

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

INCOMPATIBILITIES

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

OPERATING MODE



- I. Heat the aqueous phase to 80 C.
- 2. Incorporate the CosmeGreen ES1822+ in the fatty phase and heat to 80°C.
- 3. At 80°C, slowly add the oily phase to the ageous phase, with strong stirring but avoiding the incorporation of air. Maintain stirring and temperature for 10min.
- 4. Cool to room temperature with gentle stirring.
- 5. Make a buffer solution from sodium lactate and lactic acid, and add 4% to the emulsion (regardless of pH).
- 6. Add preservatives, fragrance and other additives.

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SURFACTGREEN

Performing Surfactants from nature is our DNA



CATIONIC SURFACTANT HAIR & SKIN CONDITIONING AGENT - GLYCINE BETAINE ESTER



Hydrophilic part from Sugar Beet Hydrophobic part from Vegetable Oil

INCI: Cetearyl Alcohol and Beta Vulgaris (Beet) Root Extract

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
- No GHS Warning Labels

Made in France



Chain Length	C16-C18
State	Pellets
% Active material	25-35%
% Brassica 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



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)
Lactic Acid	18,5% (AM)
Water	to 100%
рН	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

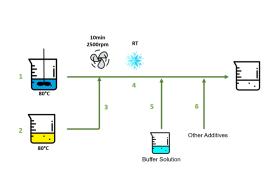
- Non-ionic polysaccharides, oils, silicones
- Sodium gluconate, Sodium lactate

INCOMPATIBLE WITH

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



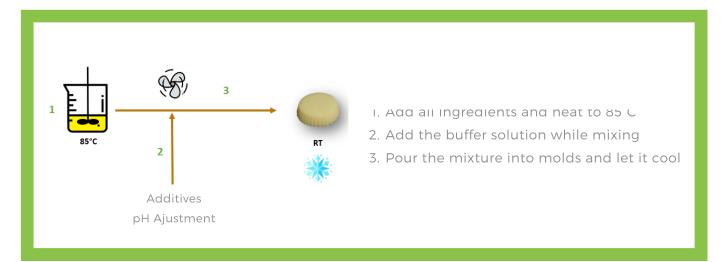
MANUFACTERING METHOD - EMULSION



I.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.

MANUFACTERING METHOD - EMULSION



Note

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