

A photograph of a woman with long, wavy, light brown hair, seen from the back, looking out towards a bright, sunlit outdoor area. Her hand is visible on the right side, reaching out towards the light.

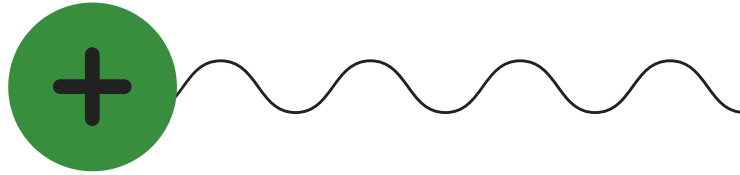
TECHNICAL DATA SHEET

CosmeGreen ES1822+

SURFACTGREEN

Performing Surfactants from
nature is our DNA

100% BIO-SOURCED CATIONIC SURFACTANT HAIR CONDITIONING AGENT



Hydrophilic part from
Sugar Beet

Hydrophobic part
from Rapeseed

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

CHARACTERISTICS

- 100% Bio-sourced
- Easy to Formulate
- Recommended pH 3-5
- Adapted for Emulsions and Solids
- No competition with human food chain

GREEN CHEMISTRY

- No solvent
- Palm Free
- One Pot, No Waste Process
- Readily Biodegradable
- No GHS Warning Labels



Made in France



Certifications

- COSMOS
- NATRUE



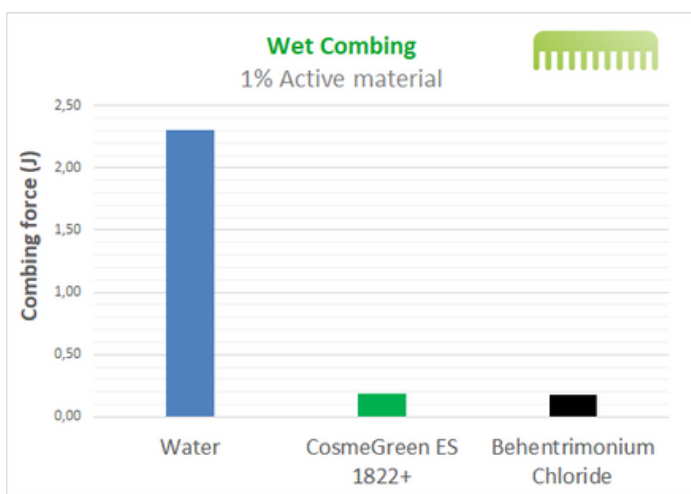
Chain Length	C16-C22
State	Pellets
% Active material	20-35%
% Brassica alcohol	>60%
Melting point	70-76°C
Colour	White - Light yellow
Smell	Neutral
Recommended pH	< 5
% of use	4-12%
Storage conditions	Cool and dry place

COSMEGREEN ES1822+

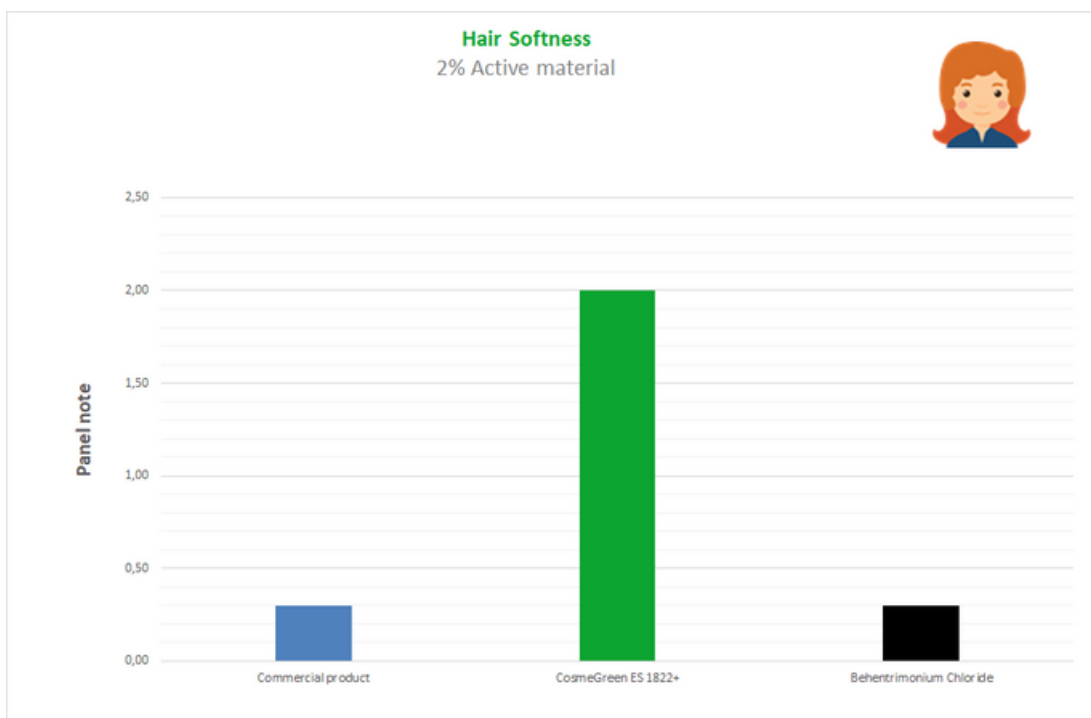
- Material readily biodegradable: 94% within 28 days (OECD 301B)
- Low ecotoxicity ingredient EC50 (48H) Daphnia (OECD 202) = 83,8 mg/L
- Natural origin index = 1, according to ISO 16128

PERFORMANCE TESTS

As effective of a detangler as behentrimonium chloride...



...but provides better softness



O/W EMULSIFICATION PROCESS

BUFFER SOLUTION

Buffer Solution	% m/m
Sodium Lactate	31,5% (AM)
Lactic Acid	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.



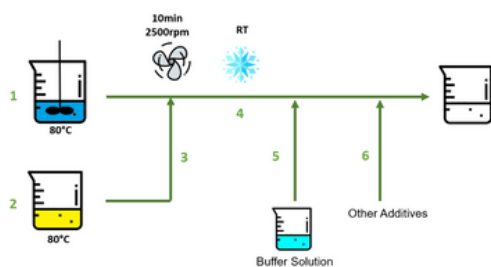
COMPATIBLE WITH

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

INCOMPATIBLE WITH

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

MANUFACTURING METHOD



1. Heat the water phase to 80°C.
2. Add CosmeGreen ES1822+ 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.

Note:

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