

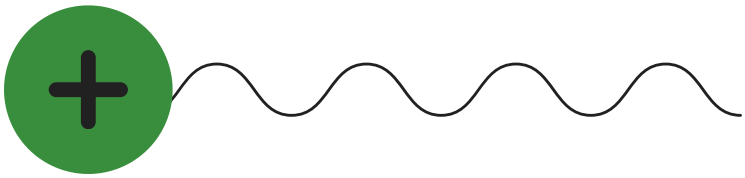
TECHNICAL DATA SHEET

CosmeGreen ES1822+

SURFACTGREEN

Performing Surfactants from nature is our DNA

COSMEGREEN ES1822+



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

Made in France



Certifications

- COSMOS
- NATRUE

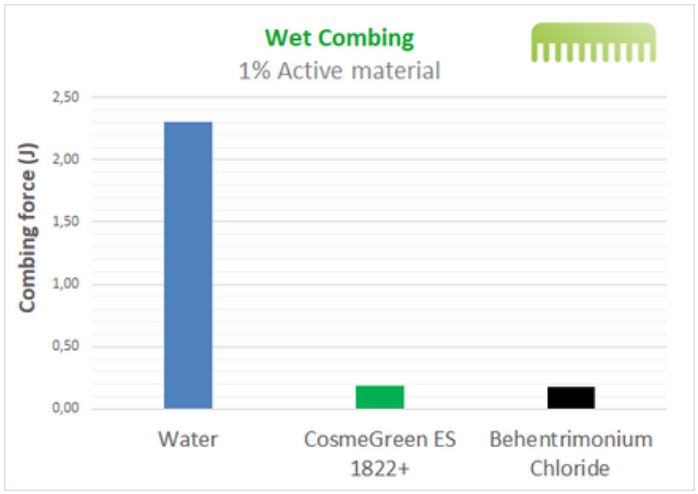
Chain length	C18 - C22
State	Pellets
% Active material	20-**36,25 %**
% Fatty alcohol	>60%
Melting point	70 - 76 °C
Color	White - light yellow
Smell	Neutral
Recommended pH	<5
% of use	4 - 12 %
Storage conditions	Cool and dry place
pH at 5%	2,3 - 2,9
Shelf life	**24** months

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

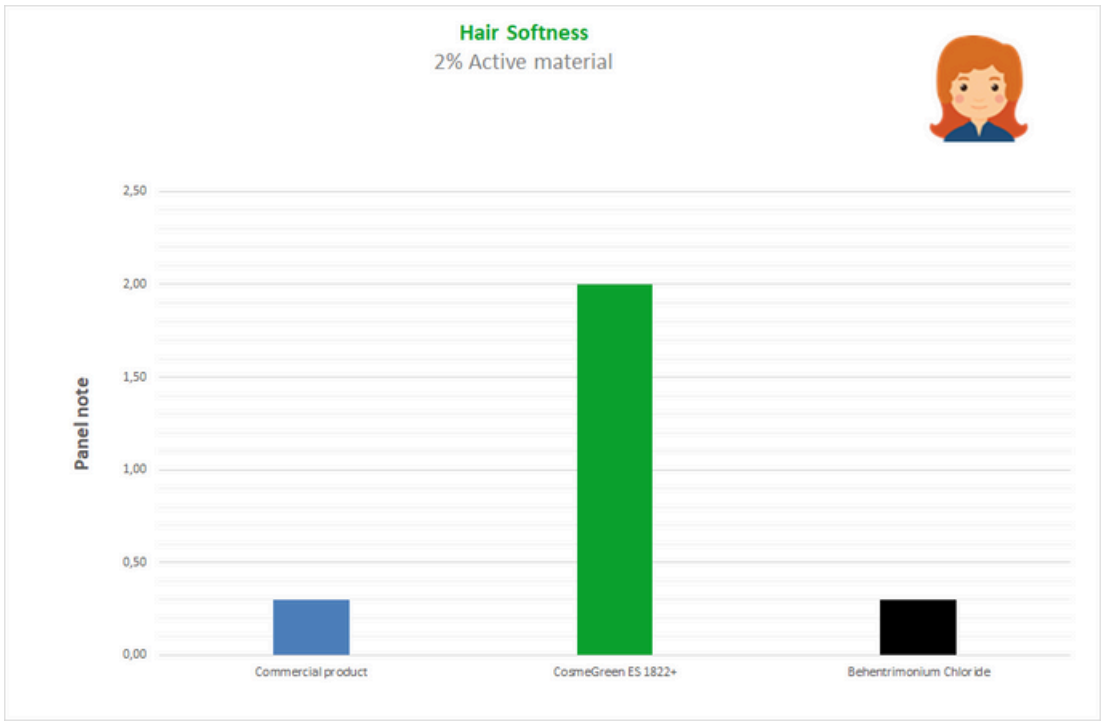
PERFORMANCE TESTS

As effictive 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.



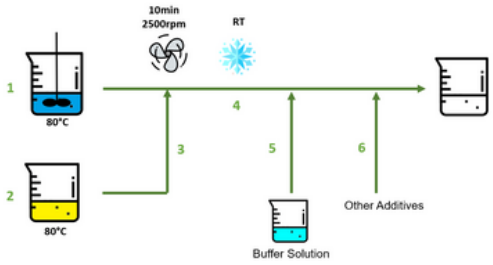
COMPATIBLE WITH

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

INCOMPATIBLE WITH

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

MANUFACTERING 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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