

EMANON®

EV

**100% ACTIVE
BIODEGRADABLE
SKIN CLEANSER
COLD EMULSIFIER
FOAM BOOSTER**

ECO-FRIENDLY

AND VEGETABLE-ORIGIN SURFACTANT

FOR PERSONAL CARE APPLICATIONS

KAO SURFACTANTS TECHNOLOGY AT YOUR SERVICE





EMANON® EV-E, an eco-friendly product 100% active

EMANON® EV-E is a water-soluble non-ionic surfactant. Its INCI name is Glycereth-7 Caprylate/Caprate.

This ethoxylated glycerine derivative has a very high HLB value (HLB 16), which confers very good solubility in water, and has a good eco-toxicological profile.

MAIN FEATURES

- Environmentally friendly
- Vegetable origin
- Liquid
- 100% active
- No water or solvents (WOCs)
- Free of by-products
- Colorless and odorless
- Water-soluble
- Unpreserved
- Biodegradable
- HLB ≈ 16

EMANON® EV-E. Glycereth-7 Caprylate/Caprate



APPLICATION AND PROPERTIES

Over the last few years, market trends have reflected a special interest in incorporating natural origin ingredients such as moisturizing oils, vitamins or extracts into shower creams, and silicones for hair care. EMANON® EV-E is in line with market trends because it helps incorporate oils and silicones into shower creams and shampoos, improving the foam and delivering active agents to the skin and hair.

It is suitable for both rinse-off and leave-on products. In shower products and shampoos, EMANON® EV-E is the key ingredient for achieving better foamability. In addition, its high HLB value makes EMANON® EV-E suitable as a co-emulsifier in hair conditioners, as a cold emulsifier in creams and as a main surfactant in wet wipes and make-up removers.

MAIN APPLICATIONS

BATH PRODUCTS

- Foam Booster
- Foam Creaminess
- Cleansing & Moisturizing
- Oil deposition

HAIR CARE

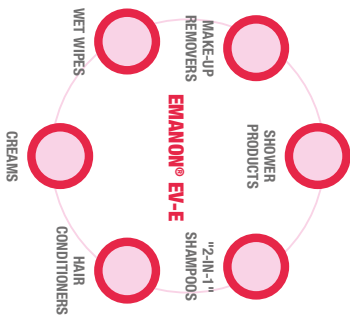
- Foam Booster
- Better Combability
- Cleansing
- Polymer Deposition

SKIN CARE

- Cold Emulsifier
- Facial Cleanser



EMANON® EV-E is a non-viscous liquid at room temperature and is therefore very easy to handle.

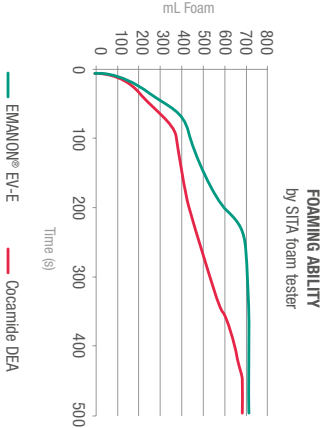


SHOWER PRODUCTS

SHOWER CREAM

Shower cream is a rising concept in today's market. These products have a high oil content, the advantage being that the user does not need to apply cream afterwards. The main drawback is the poor foamability due to the presence of oil. By using EMANON® EV-E as a non-ionic surfactant in the formulation, richer and creamier foam is obtained in comparison to other co-surfactants and the skin becomes smoother.

The better foamability of EMANON® EV-E versus Cocamide DEA is confirmed by foaming tests.



Foamability of Shower Cream C-158 (at 5% active matter solution prepared with two different non-ionic surfactants)

The results of the sensory test show that EMANON® EV-E performs better, especially in foamability and smoothness, than Cocamide DEA and even than the market product reference. The improved smoothness is related to the oil deposition which is higher using EMANON® EV-E than with other non-ionic surfactants. As perfumes are made of oils, their deposition too is enhanced.

HIGH FOAM QUALITY			
SHOWER CREAM	Ref. C-158 Standard	Ref. C-183 High oil content	Ref. C-195 RT Process
EMAL® 2700 Sodium Laureth Sulfate	14.3	14.3	14.3
BETADET® HR Cocamidopropyl Betaine	10	10	10
AKYPO® FOAM RLM 40 Sodium Laureth-5 Carboxylate	4.8	-	4.8
EMANON® EV-E Glysereth-7 Caprylate/ Caprate	3.5	10	3.5
AMIDET® N PEG-4 Rapeseedamide	1	-	1
KALCOL® 6850 Cetylal Alcohol	0.5	0.5	-
Glycerin	3	-	3
Sunflower Oil	10	40	10
Laureic Acid	1.5	1.5	-
Stearic Acid	0.5	0.5	-
Xanthan Gum	-	-	0.2
Additives*	q.s.	q.s.	q.s.
Deionized Water	Up to 100	Up to 100	Up to 100

*Additives: Perfume, dyes, preservatives, etc.



SHOWER OIL PATENT FILED

Shower oils are clear shower products with a high oil content (>36%) and a low amount of water (<5%), that improve skin condition while showering by depositing oil on the skin.

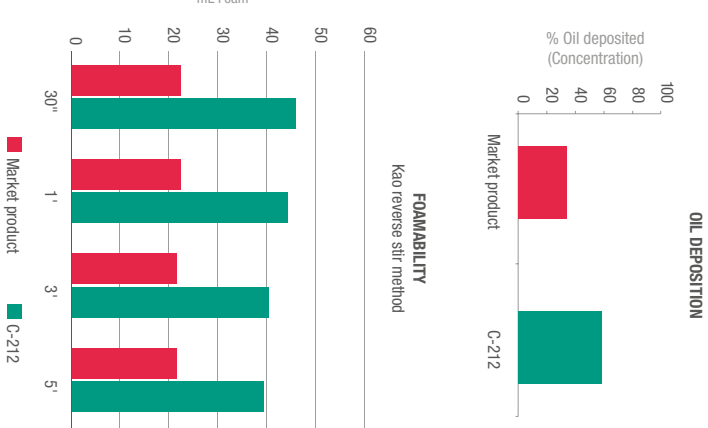
Even though the use of these products is not extensive worldwide, it has been growing over the last few years. The main characteristics of this kind of products are the high oil deposition on the skin, resulting in improved skin condition, but also poor foamability due to the amount of oils in the formulation.

Ref. C-212 SHOWER OIL		%
EMANON® EV-E Glysereth-7 Caprylate/Caprate		23.3
AKYPO® RLM 45 CA Laureth-6 Carboxylic acid		19.3
AMIDET® N PEG-4 Rapeseedamide		12
Castor Oil		30
Soybean Oil		9
Propylene glycol		2
Additives*		q.s.
Deionized Water		Up to 100

*Additives: Perfume, dyes, preservatives, etc.

Kao has developed a shower oil (C-212) with a combination of EMANON® EV-E and AKYPO® RLM 45CA. In this formulation, while EMANON® EV-E increases foam ability and oil deposition in the presence of high amounts of oils, AKYPO® RLM 45CA enhances the cleansing effect and reduces the irritation of the product thanks to its very mild profile. The micro-emulsification of all the ingredients of the composition results in a very stable formulation.

As shown in the graphics below, by using a mix of AKYPO® RLM 45CA and EMANON® EV-E in a specific ratio, the foamability is greatly increased and the oil deposition on skin is much higher compared to a market product reference.



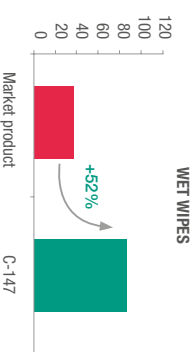
SKIN CLEANSING

WET WIPES

Nowadays, wet wipes are increasingly present in everyday life thanks to their ready-to-use characteristics. The addition of EMANON® EV-E to formulations for wet wipes enhances the cleansing speed and clearly reduces the residue on the skin.

Ref. C-147 FACE CLEANSER

	%
EMANON® EV-E Glyceth-7 Caprylate/Caprate	5
Glycerin	3
FINDET® ARH-52 PEG-40 Hydrogenated Castor Oil	2
Aloe Vera Gel Aloe Barbadensis Leaf Juice	0.25
Additives*	q.s.
Deionized Water	Up to 100

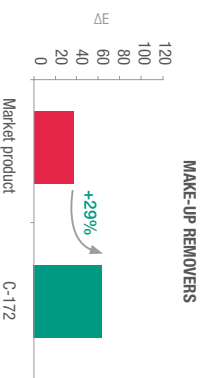


MAKE-UP REMOVERS

The addition of EMANON® EV-E to make-up removing formulations, as with wet wipes, enhances the cleansing speed and the lack of residue. EMANON® EV-E is also effective in removing other kinds of make-up like lipstick, lash mascara and eyeliner.

Ref. C-172 MAKE-UP REMOVER

	%
EMANON® EV-E Glyceth-7 Caprylate/Caprate	6
KALCOL® 6850 Cetyl Alcohol	3
KAOPAN® SP-010 Sorbitan Oleate	3
Glycerin	3
Mineral Oil	2
Isopropyl Myristate	1
Carbopol® Ultrez 10 Carbomer	0.25
Additives*	q.s.
Deionized Water	Up to 100



SKIN CARE

EMANON® EV-E acts as a cold emulsifier. Combined with a low HLB surfactant, such as sorbitan monoesters, very small droplet size emulsions are formed with very good stability.

Ref. C-194 HAND CREAM

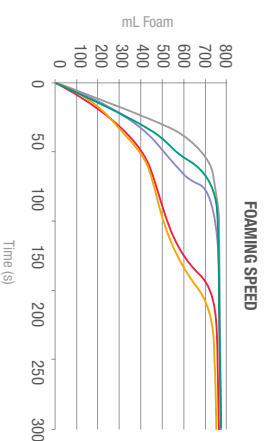
	%
Glycerin	5
EMANON® EV-E Glyceth-7 Caprylate/Caprate	2
KAOPAN® SP-010 Sorbitan Oleate	0.5
Mineral Oil	8
Wagilno® 6014 Isopropyl Myristate	7
Du® Zenoat Diacrylate Propandiol	1
Tocopheryl Acetate	1
Carbopol® Ultrez 10 Carbomer	0.2
Additives*	q.s.
Deionized Water	Up to 100

HAIR CARE

Conditioning shampoos contain emulsified hydrophobic silicones which have negative effects on foamability. When EMANON® EV-E is incorporated into this type of formulation, it enhances the deposition of conditioning agents such as polymers and silicones on hair, maintaining high foam volume.

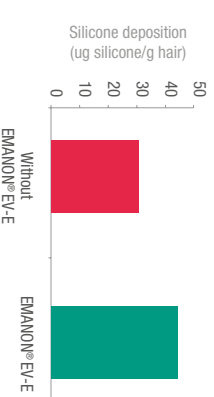
Ref. C-159 CONDITIONING SHAMPOO

	%
EMAL® 2700 Sodium Laureth Sulfate	14.7
BETADET® HR Cocamidopropyl Betaine	10
BETADET® S-20 Lauryl Hydroxysulfate	3.9
DANOX® PL-10 Pearlfaring agent	3
EMANON® EV-E Glyceth-7 Caprylate/Caprate	2
Dow Corning® 193 Fluid PEG-12 Dimethicone	0.5
Jagua® C-17 Glar Hydroxypropyl Trimonium Chloride	0.3
Additives*	q.s.
Deionized Water	Up to 100



Foaming Speed of Conditioning Shampoo with 10% a.m. (active matter) of SLES, 3% a.m. of CAPB, 1% of Dimethicone and 4% a.m. of non-ionic surfactant.

SILICONE DEPOSITION ON HAIR



EMANON® EV-E can be used in hair care products as a co-emulsifier in hair conditioners. EMANON® EV-E decreases the combing force in comparison with other non-ionic co-emulsifiers, resulting in better conditioning and improved sensory attributes.

Ref. C-144 HAIR CONDITIONER

	%
KALCOL® 6850 Cetyl Alcohol	3
TETRAVYL® CO-40 Dioctylethyl Hydroxyethylmonium Methosulfate	1.9
EMANON® EV-E Glyceth-7 Caprylate/Caprate	0.5
Additives*	q.s.
Deionized Water	Up to 100

MILDNESS

All formulations shown in this leaflet are classified as NON-IRRITANT, according to the Zein Test (Skin irritation) and RBC Test (Eye irritation).

*Additives: Perfume, dyes, preservatives, etc.

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in harmony with nature.

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OUR CHEMICALS, YOUR BUSINESS

