

# ALPICARE GL 612

## Care and delicacy from Amino Acids

ALPICARE GL 612 is an amino-acid based anionic surfactant produced from L-Glutamic acid, an amino acid naturally present in skin and hair, and plant-derived fatty acids.

Consumers demand for greener, sustainable and skin friendly chemicals is driving the use in personal care of amino-acid based surfactants: a class of bio-based materials with excellent surface properties, low potential toxicity and low environmental impact.

ALPICARE GL 612 is a gentle cleanser that leaves skin soft and moisturized after use.

Mild cleansing is nothing but cleansing without disturbing the biological function of the uppermost layer of skin. Acyl Glutamates like ALPICARE GL 612 are delicate towards Natural Moisturizing Factors (NMF), elements that keep the outer layer of the skin protected and well-hydrated.

ALPICARE GL 612 meets also the requirements for certified natural cosmetics, being compliant to Cosmos and Natrue standards. In addition, ALPICARE GL 612 has a Natural Origin Index of about 0.9, according to definitions of derived natural ingredients from ISO 16128-1 and ISO 16128-2.

ALPICARE GL 612 therefore combines performance, mildness, environmental friendliness and foaming properties. It offers care and protection to normal and damaged skin or hair, as well as mildness to eyes and mucous membranes and, conditioning effects.

### Applications

Products formulated with ALPICARE GL 612 are not only able to clean skin and hair, but they are also able to respect their structure, constitutive elements, resident micro-organisms and pH.

ALPICARE GL 612 is an ideal choice for:

- **CLEANSING GELS:** ideal as co-surfactant in mild, natural face-body cleansing preparations, such as foams and shower baths. When used as co-surfactant, it can enhance the overall formulation's mildness, leading to a reduction of SLES adsorption, which correlates with an increased moisture content of the skin
- **CLEANSING FOAMS:** amino acid-based surfactants act as foam-boosters and provide a very fine, mousse-like foam
- **HAIR SHAMPOOS:** this ingredient has hair conditioning properties, providing lubricity, softness and silk feel to the hair. The soft foam created by a surfactants' mix containing ALPICARE GL 612 gently envelops and cleans the hair
- **MAKE UP REMOVERS:** thanks to its remarkable mildness to the skin and the eyes, it is especially suitable for make up removing applications, as well as shaving preparations
- **INTIMATE DETERGENTS:** ALPICARE GL 612 respects feminine mucosa and, at the same time, it is stable at mildly acidic pH

- **BABY SHAMPOOS & BODY WASHES:** offering care and protection to the skin, this moisturizing surfactant is best suited for kids' delicate skin and hair

#### INCI name:

Disodium Cocoyl Glutamate

### Summary of benefits

- Gentle and effective cleansing
- Mild to skin and eyes
- Moisturizing and conditioning effect- excellent foam-boosting properties
- EO-free and Sulfate-free
- Preservative free
- Environmental friendly



## BABY SHAMPOO LAMCOS 165

Phase	Ingredient name	% w/w
<b>A</b>		
1	Aqua (Water)	To 100
2	Disodium EDTA	0.05
3	<b>ALPICARE GL 612</b>	17.0
4	Lauryl Glucoside (~50% a.m.)	20.0
5	<b>EUCAROL® AGE/EC MB</b>	10.0
6	Glycerin	2.5
7	Propylene Glycol, Aqua, Chamomilla Recutita Extract	2.5
8	Preservatives	q.s.
9	Parfum (Fragrance)	q.s.
10	Citric Acid, 10% soln.	To ~ pH 5.0

### Manufacturing procedure:

Under stirring, add ingredients A1-A9 in given order. Stir until homogeneous. Ingredient A4 (Lauryl Glucoside) might require pre-heating in order to be homogeneous and pourable. At the end of the procedure, adjust pH to ~ 5.0 with citric acid; viscosity will develop.

### General characteristics:

Appearance: thick clear detergent  
pH: ~ 5.0  
Viscosity (Brookfield RVT, 20 rpm, 25°C): ~ 1500 mPa\*s

## PAMPERING CLEANSING CREAM LAMCOS 171

Phase	Ingredient name	% w/w
<b>A</b>		
1	Aqua (Water)	To 100
2	Glycerin	6.0
3	<b>ESAFLOR® HM22</b>	0.5
4	Citric Acid, 20% soln.	To pH 5.5
<b>B</b>		
1	Cetearyl Alcohol	5
2	<b>ALPICARE GL 612</b>	23.3
<b>C</b>		
1	Caprylic/Capric Triglycerides	3.0
2	Parfum (Fragrance)	q.s.
3	Preservatives	q.s.
4	Citric Acid, 20% soln.	To pH 5.0-5.5

### Manufacturing procedure:

In the main vessel, mix ingredients A1 and A2. Add A3 with vigorous stirring; adjust pH to ~ 5.5, then stir for ~ 20 minutes to ensure the complete hydration of the polymer. Heat phase A up to 60°C. In a side vessel, add the ingredients of phase B and heat to 60°C, until completely melted. Add phase B to phase A and stir until homogeneous. Add ingredients of phase C and adjust pH with a citric acid solution.

### General characteristics:

Appearance: white fluid emulsion  
pH: 5.0 - 5.5  
Viscosity (Brookfield RVT, 20 rpm, 25°C): ~ 3000 mPa\*s

For more information please contact:

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