

iSURF LDEA

INCI Name (US): Lauramide DEA

INCI Name (EU): Lauramide DEA

CAS #: 120-40-1

**General Information/
Characteristics:**

iSurf LDEA is a lauric acid dietanolamide (obtained from coconut oil). The fatty acids from coconut oil are 100% vegetable and renewable. iSurf LDEA is an excellent emollient agent which helps stabilize lather volume in shampoo and washes in general.

iSurf LDEA enhance primary surfactant solubility and therefore, reducing the cloud point in shampoo formulation and improving the limestone soap dispersion.

It has a great interaction between amide group and sulfate ions, which brings great advantages when achieved – its association with anion surfactant. Among these advantages, an extraordinary thickening property can be noticed, which allows using lower sodium chloride concentration. Also helps improve oil soluble dispersion and solubility.

Benefits / Application:

When we combine iSurf LDEA with LESS (Laurion N) we benefit from a thick and dense foam formation with good stability.

iSurf LDEA changes the lather structure through specific links, such as, hydrogen bonds with adjacent surfactating molecules and with water increasing the stability of bubble film. This film contributes to foam formation and its stability, because of the separation of ionic charge the hydrophilic part of anion surfactant molecule (Laurion N), allows higher density, reducing (ionic) repulsion resulting in a significant improvement on foam texture, reducing the bubble size and increasing its cremosity from fragile and lacy to rich, dense and with a great number of small size bubbles.

It has a superficial tension value at inflexion point of 42,7 mN/m and cmc 0,10 mmol/L.

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iSurf LDEA presents good compability with cosmetics actives and additives and it can be easily associated to vegetal extracts, hydrolised proteins, among others. It is an excellent thickening agent for anion surfactant systems.

Due to its multi-performance, iSurf LDEA presents the best cost benefit when compared to other surfactant available in the market.

Formulations Advices:

The recommended dosage for shampoo and soap is 2.0 to 5.0 % of iSurf LDEA for shampoo, conditioner, soap in general and shave foam and conditioner from 0.5 to 4.0%.

Regulatory Status:

No specific regulation

Physico-Chemical Properties:

Aspect	Liquid
Color Gardner	Max. 5.0
Acidity Value – KOH 0,1N	Max. 1.0
% Free Amine	Max. 5.0
% Amide	Max. 82.0
% Humidity (Karl Fisher)	Max. 0.50
% Free Glycerin	Max. 7.0
<u>Fatty Distribution :</u>	
C10	Max. 1.0
C12	26 – 35
C14	9 – 15
C16	7 – 13
C18	Max. +6.0
C18:1	15- 23
C18:2	17 – 25
C18:3	Max. 4.0
pH 1%	8.5 – 10.5

Additives:

Preservatives:

Shelf Life / Storage Conditions:

24 months if stored at 25°C unopened original packing, at dry and covered area, at room temperature and protected against light.

Legislation:

iSurf LDEA obeys the Brazilian Legislation (ANVS nº 71) as the European Legislation which restricts the DEA content free at 5% and it is not used any kind of nitrous agent during the whole manufacturing procedure. The final product is conditioned into packages free of Nitrite.

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