



# BEAULIGHT® SHAA

*Improves foaming ability of all types of formulations*  
*Sanyo's original foam booster*

## ◆Feature

- Improves foaming power of all types of formulations.  
→Forms fine and rich foam quickly
- Oil control function (Both cleansing and moisturizing functions)
- Excellent biodegradability

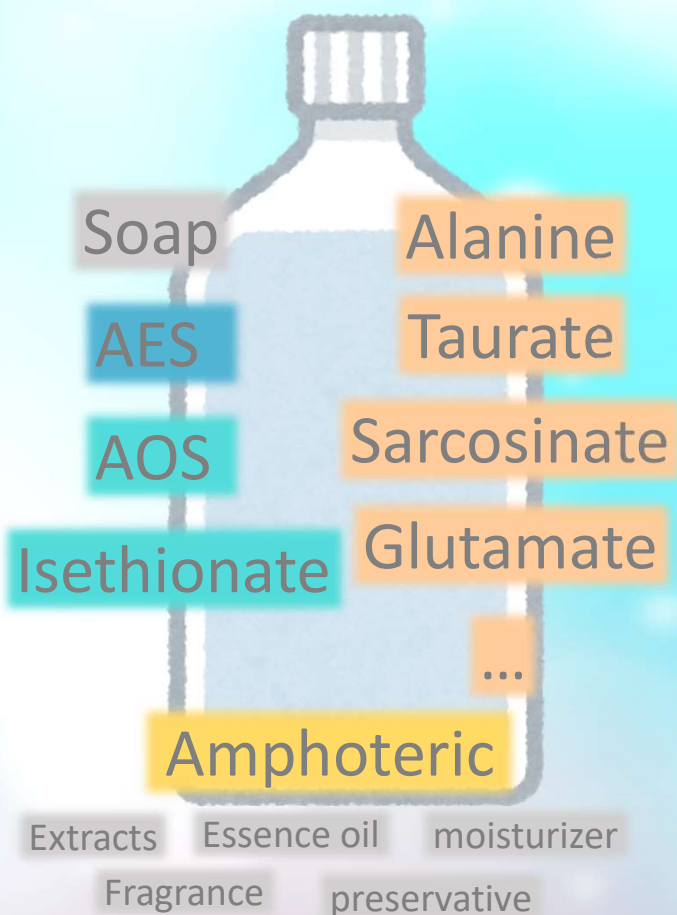


## ◆Component

INCI Name	Evaporated residue	Appearance
Sodium lauryl glycol carboxylate	29%	Pale yellow liquid

Original-  
INCI

*All-around foam booster*



1 ~ 3 %  
SHAA

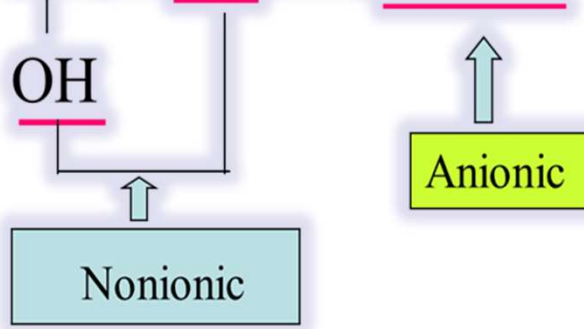


Hard water / soft water  
OK

## ◆ Chemical formula



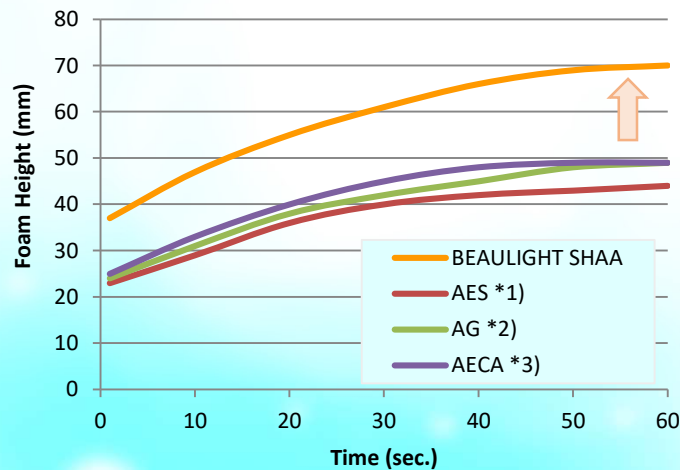
Original-  
INCI



## ◆ Application data 1

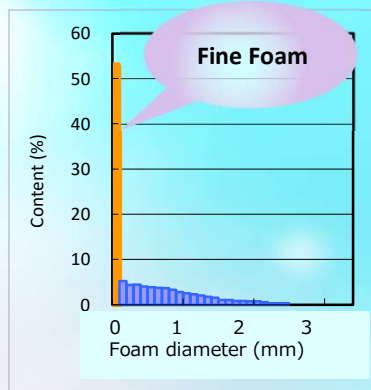
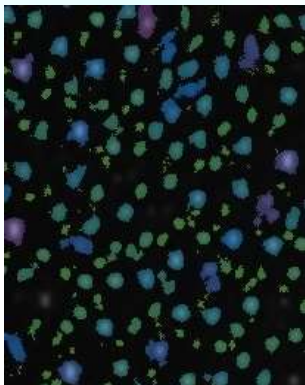
Using "BEAULIGHT® SHAA" as a base, a washing solution with superior foam height and initial foaming speed compared to AES (sodium laureth sulfate), AG (sodium cocoyl glutamate), and AECA (sodium laureth-4-carboxylate) can be obtained.

### ■ Foaming height

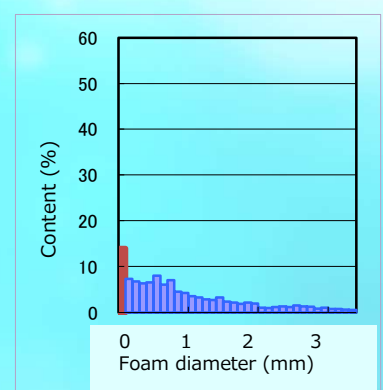
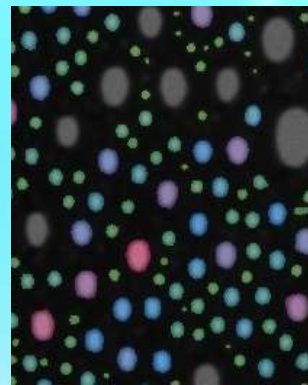


### ■ Pictures of foam and distribution of foam diameters five seconds after stop of stirring

BEAULIGHT® SHAA



AES\*1)



#### ● Methods

Dynamic Foam Analyzer (KRUSS GmbH), Surfactants Concentration; 0.5wt% (Active Ingredient)

#### ● Materials

\*1) AES ; Sodium Laureth Sulfate, Our Product, "SANDET EN"

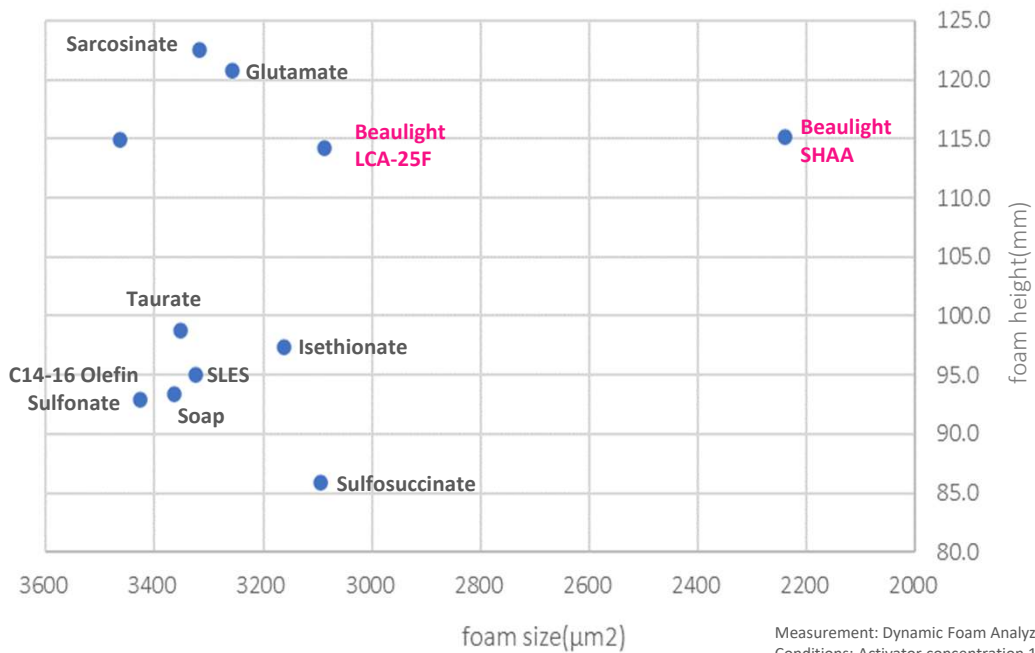
\*2) AG ; Sodium Cocoyl Glutamate, Other Company's Product

\*3) AECA ; Sodium Laureth-4 Carboxylate, Our Product, "BEAULIGHT LCA-25F"

## ◆ Application data 2

**High foaming ability; excellent foam height & foam size in hard water**

Foam height and foam size for some surfactants in Hard-Water

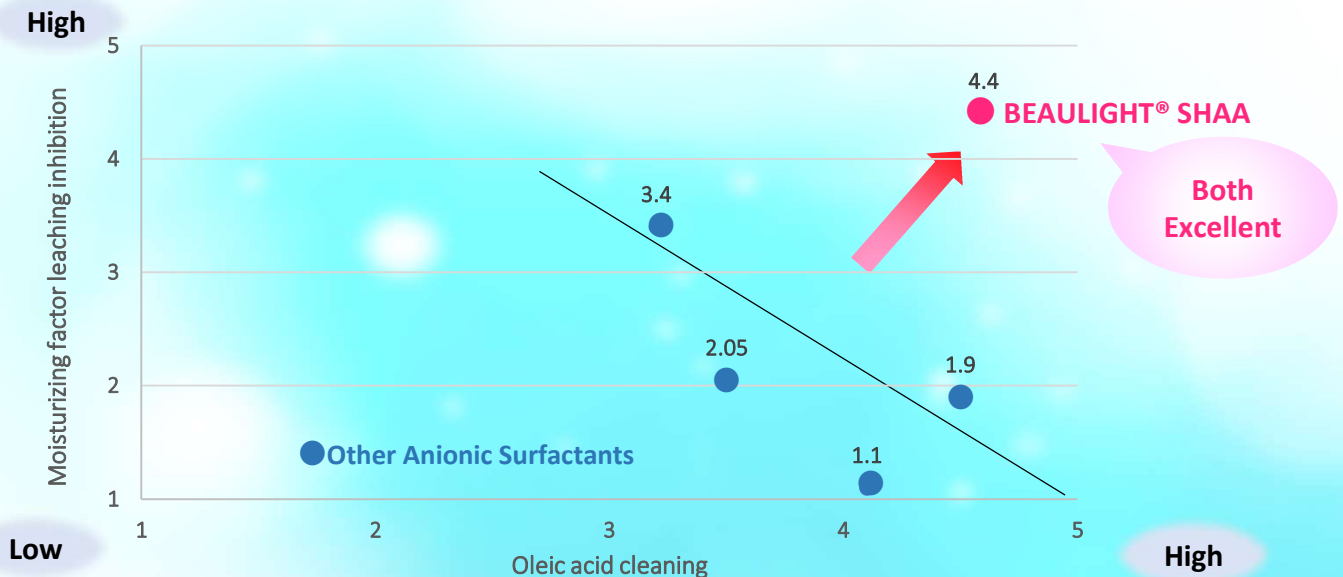


Measurement: Dynamic Foam Analyzer (data after 60 sec. foam generation and 5 sec. stop)  
 Conditions: Activator concentration 1.0 wt%aq / pH=6.0 (±0.1) \*Not adjusted for soap only  
 Hard-water: 300ppm CaO in ion exchange water

## ◆ Application data 3

**Selective cleaning ability;**

**“Moisturizing factor leaching inhibition” and “Oleic acid Cleaning”**



### Method: Moisturizing factor leaching inhibition

Liposomes encapsulating a fluorescent substance (5(6)-Carboxyfluorescein, CF) were prepared and purified, and 0.5% aqueous activator solution was added to the liposome solution on a fluorescence measurement plate. Fluorescence intensity was then measured (Ex/Em: 494/520 nm). The higher the leakage rate of CF encapsulated in liposomes (higher fluorescence intensity), the more intercellular lipid components that act as a barrier function for the stratum corneum are leached, i.e., the more easily components necessary leach out.

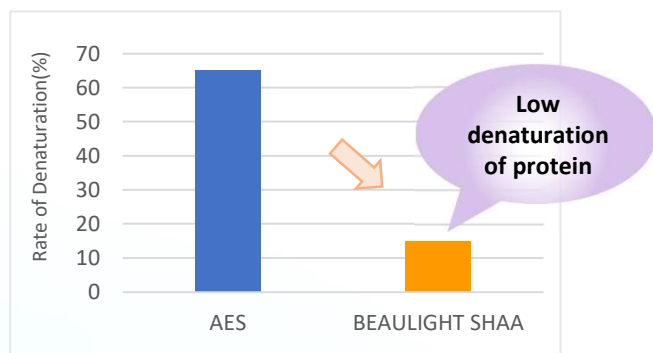
### Method: Oleic acid cleaning

After 10 µl of oleic acid was applied to artificial skin (Bioskin by Bulex), the skin was washed with detergent solution (active ingredients: sodium cocoyl glutamate 10%, BEAULIGHT® SHAA 10%, and remaining water). The skin was wiped with kitchen paper, extracted with acetone, and quantified by NMR along with the sample (sodium benzoate).

# ◆ Safety date & Biodegradability

Friendly to both the global environment and the skin, because of its low protein-denaturation rate and high biodegradability

## ■ Protein-denaturation rate



## ● Measurement Condition

Described in *International Journal of Cosmetic Science* 1984,6,33-46  
0.05% Albumin aq / Surfactant (1% Active) = 9 / 1 25°C, 24hours

## ■ Human test

- ✓ Acute Eye Irritation test(OECD TG492): Safety
- ✓ 24-hour occlusion human patch test: Safety
- ✓RIPT: Safety

## ■ Biodegradability

Methods for assessing biochemical oxygen demand: BOD

High Biodegradability

Pass level	BEAULIGHT SHAA
60%	84%

# ◆ Formula

It's an amino acid-based pump foam cleansing formula that is gentle on the skin, with a fine, perfect lather.

	Ingredients (INCI)	Sanyo's product	wt%	Purpose
1	Water		12.95	Base
2	EDTA-2Na		0.05	Chelating agent
3	Glycerin		10.00	Moisturizer
4	Sorbitol		8.00	Moisturizer
5	Disodium Cocoyl Glutamate		30.00	Cleaning agent
6	Sodium Lauraminopropionate	PIUSERIA AMC	10.00	Cleaning agent
7	Lauramidopropyl Hydroxysultaine		10.00	Cleaning agent
8	Sodium Lauryl Glycol Carboxylate	BEAULIGHT SHAA	10.00	Cleaning agent
9	Polyquaternium-7, water, and benzoic acid		0.40	Feel adjustment
10	Polyquaternium-39, water, and benzoic acid		0.40	Feel adjustment
11	Citric acid(10% aq)		7.50	pH adjuster
12	Phenoxyethanol		0.50	Preservatives
13	Iodopropynyl Butylcarbamate, Hydroxypropyl Cyclodextrin, Water		0.20	Preservatives
			100.00	

[Manufacturing Procedures]  
1) 1-4 are heated and mixed (60°C, Propeller mixer=150 or so).  
2) Add 5 to 8 to 1) and mix and stir.  
3) 2) is cooled to 40°C.  
4) Add 9 and 10 to 3) and mix and stir.  
5) Add 11 to 4) and mix uniformly.  
6) Add 12 and 13 to 5) and mix uniformly.



# ◆ History

BEAULIGHT SHAA was jointly developed with a major Japanese cosmetic maker in the late 1980's. It has a proven track record and combines functionality.

## ◆ IMPORTANT

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