EXOsoft L3/40

Disodium Laureth Sulfosuccinate

Local. Global. Integrated.

Description

- good cleaning properties
- anionic surfactant with a mild skin effect
- reduces irritant effects in SLES formulations
- foam enhancer and stabilizer in personal hygiene products
- shows a hydrotropic effect

Application

- mild shampoos
- shower gels
- bath gels
- liquid soaps
- face wash products
- body and face scrubs
- hair sprays
- conditioners and hair straightening products
- anti-acne and anti-ageing preparations
- make-up products
- dishwashing liquids
- laundry detergents

in line with cosmetic trends

guarantee the consumer satisfaction

improvement of Personal Care formulations

innovative product

value for money

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Disodium Laureth Sulfosuccinate

Chemical name	Alcohols, C10-16, ethoxylated (3), sulfosuccinates, disodium salts	
INCI name	Disodium Laureth Sulfosuccinate	
CAS number	68815-56-5	
Function	Base surfactant, foaming agent, cleansing agent	
Technical requirements	Appearance at temperature (20÷25)°C	pale yellow or yellow liquid
	pH of 1% solution	5.0 - 6.5
	Dry mass, % (m/m)	min. 38
General data	Solubility in water	unlimited
	Other solvents	ethanol, isopropyl alcohol
	Density at 20°C, g/mL	approx 1.1
	Molecular weight, g/mol	545
	Viscosity at 25°C, cP	approx. 100
	Solidification temperature, °C	approx. -8
	Preservative	approx. 0.3% of Sodium Benzoate

Classic shampoo (SZ-01)

Phase	INCI name	Brand name	Concentration [%]	Function
A	Aqua		37.95	solvent
A	**PEG-7 Glyceryl Cocoate**	**ROKAcet KO300G**	**2.00**	**re-oiling agent**
A	Polyquaternium-7		2.50	contitioning agent
A	**Disodium Laureth Sulfosuccinate**	**EXOsoft L3/40**	**4.00**	**secondary surfactant**
A	**Sodium Laureth Sulfate**	**SULFOROKAnol L227/1**	**30.00**	**primary surfactant**
A	**Sodium Lauroyl Sarcosinate**	**ROKAtend LS**	**15.00**	**primary surfactant**
B	Citric Acid		q.s.	pH modifier
C	PEG-120 Methyl Glucose Dioleate		1.00	thickening agent
D	Parfum		0.50	fragrance
D	Ehylhexylglycerin, Phenoxyethanol		1.00	preservative
D	**Cocamidopropyl Betaine**	**ROKAmina K30**	**4.50**	**secondary surfactant**
E	Sodium Chloride		1.50	viscosity modifier

Appearance	visual method	turbid gel
pH		5.0 - 7.0
Viscosity [cP]	Brookfield LV, spindle: 34, speed: 2,5 RPM, T:25°C	1500 - 5000
Stability	1 month in 5°C, 20°C, 40°C,	conforms

Procedure:

1. Add ingredients from phase A to the hot water (70-75°C). While mixing add ingredients one after another in the order from the table above. Mix until uniform.

2. Cool the batch down to at least 50°C.

3. Control pH range. If necessary, adjust pH by citric acid to 5.0 – 7.0.

4. Add PEG-120 Methyl Glucose Dioleate during mixing. Mix until uniform. Cool the batch down to at least 35°C.

5. Add fragrance, preservative and cocamidopropylbetaine during mixing. Mix until uniform.

6. If necessary, add Sodium Chloride to adjust the viscosity. (NOTE. Add salt (not in one go) – after addition of each portion mix well).

PCC Exol SA
Sienkiewicza 4
56-120 Brzeg Dolny, Poland
products@pcc.eu

Please visit our capital group business platform:
www.products.pcc.eu

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