EXOpearl N

Sodium Laureth Sulfate (and) Cocamide DEA (and) Glycol Distearate

Local. Global. Integrated.

Description

- creates pearl effect,
- easy to use,
- stabilizes foam.

Application

- shampoos,
- bath foams,
- shower gels,
- liquid soaps,
- face wash gels,
- baby products.

in line with cosmetic trends

guarantee the consumer satisfaction

improvement of Personal Care formulation

innovative product

value for money

EXOpearl N

Pearling agent

Chemical name	Mixture of anionic and non – ionic surfactants	
INCI name	Sodium Laureth Sulfate (and) Cocamide DEA (and) Glycol Distearate	
CAS number	–	
Function	Pearling agent and foam stabilizer	
Technical requirements	Appearance at temperature (20÷25)°C	opaque, white liquid
	Dry matter, % (m/m)	38 ÷ 43
	pH of 10% solution	7.0 ÷ 8.5
	Chlorides as NaCl, % (m/m)	max. 1.0
General data	Solubility in water	forms milky dispersion
	Viscosity at 20°C, cP	1500 ÷ 5000
	Density at 20°C, g/mL	approx. 1.03

Mild pearling gel for skin face [ST–06]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Aqua	–	up to 100	solvent
A	Xanthan Gum	–	0.65	viscosity modifier
A	Glycerin	–	2.00	moisturising agent
A	Sodium Benzoate, Potassium Sorbate	–	0.60	preservative
B	Aqua	–	15.70	solvent
B	Magnesium Laureth Sulfate	–	20.00	primary surfactant
B	**Sodium Lauroyl Sarcosinate**	**ROKAtend LS**	**10.00**	**primary surfactant**
B	**Cocamidopropyl Betaine**	**ROKAmina K30**	**3.40**	**secondary surfactant**
C	Citric Acid	–	q.s	pH modifier
C	**Sodium Laureth Sulfate, Cocamide DEA, Glycol Distearate**	**EXOpearl N**	**1.00**	**pearling agent**
C	Parfum	–	0.50	fragrance

Appearance	visual method	viscosus pearling gel
pH		4.8 – 5.0
Viscosity [cP]	Brookfield LV, spindle 34 , speed 4 RPM, 25°C	6000 – 9000
Stability	1 month in 5°C, 20°C, 40°C	confirmed

Procedure:

1. In a main vessel combine ingredients from phase A. Add Xanthan Gum to Glycerin – mix until homogenous solution is obtained. Add warm water (40 – 50°C) and preservative. Mix until homogenous solution is obtained. Homogenise for 2 – 3 minutes.

2. Combine ingredients from phase B. Add ingredients from phase B to warm water (40 – 45°C). Mix until homogenous solution is obtained.

3. Add phase B to phase A. Mix until homogenous solution is obtained. Cool the batch down to 30°C.

4. Adjust pH to 4.8 – 5.5 by using Citric Acid. Mix well after adjustment.

5. Add ingredients from phase C. Mix until homogenous solution is obtained.

Shower gel with pearly effect [ZP–01]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Aqua	–	up to 100	solvent
A	Citric Acid	–	q.s	pH modifier
A	Polyquaternium 10	–	0.06	conditioning agent
A	**Disodium Laureth Sulfosuccinate**	**EXOsoft L3/40**	**2.50**	**surfactant**
A	**Sodium Laureth Sulfate**	**SULFOROKAnol L227/1**	**20.00**	**surfactant**
A	**Sodium Lauroyl Sarcosinate**	**ROKAtend LS**	**20.00**	**surfactant**
A	Sodium Benzoate, Potassium Sorbate	–	0.50	preservative
B	PEG–120 Methyl Glucose Dioleate	–	0.50	thickening agent
C	**Coco Betaine**	**ROKAmina K30B**	**5.50**	**surfactant**
C	Parfum	–	0.50	fragrance
D	**Sodium Laureth Sulfate, Cocamide DEA, Glycol Distearate**	**EXOpearl N**	**2.00**	**pearling agent**
E	Sodium Chloride	–	2.00	viscosity modifier
E	Citric Acid	–	0.17	pH modifier

Appearance	visual method	viscosus, pearl gel
pH		5.0 – 5.5
Viscosity [cP]	Brookfield LV, spindle 34 , speed 4 RPM, 25°C	3000 – 6000
Stability	1 month at 5°C, RT, 40°C	confirmed

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. Add PEG–120 Methyl Glucose Dioleate during mixing. Mix until uniform. Cool the batch down to at least 35°C.
4. Add fragrance and Coco Betaine during mixing. Mix until uniform.
5. Add pearling agent. Mix until uniform.
6. Add Sodium Chloride to adjust the viscosity.
NOTE. Add salt (not in one go) – after addition of each portion mix well.
7. Control the pH range – if necessary, add Citric Acid. Mix well after adjustment.
8. Control the viscosity, if necessary add Sodium Chloride.

Gel for intimate hygiene [KD–06]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Aqua	–	up to 100	solvent
A	Sodium Benzoate, Potassium Sorbate	–	0.50	preservative
A	Betaine	–	0.50	active
A	Glycerin	–	1.00	moisturising agent
A	Lactic Acid	–	q.s.	pH adjuster
B	Magnesium Laureth Sulfate	–	24.00	surfactant
B	PEG–20 Methyl Glucose Dioleate	–	0.50	thickener
B	**PEG–7 Glyceryl Cocoate**	**ROKAcet KO300G**	**0.50**	**surfactant**
C	**Coco-betaine**	**ROKAmina K30B**	**8.00**	**surfactant**
D	**Sodium Laureth Sulfate, Cocamide DEA, Glycol Distearate**	**EXOpearl N**	**1.50**	**surfactant**

Appearance	visual method	pearly gel
pH		4.0 – 4.5
Viscosity [cP]	Brookfield LV, spindle 34 , speed 2.5 RPM, T: 25°C	3000 – 8000
Stability	1 month at 5°C, RT, 40°C	confirmed

Procedure:

1. In a main vessel combine ingredients from phase A. Add ingredients from phase A to warm water (40 – 45°C). Mix until uniform.

2. Add ingredients from phase B. Mix until uniform. Cool the batch down to at least 30°C.

3. Add ingredients from phase C and D during mixing. Mix until uniform.

Pearl shampoo [SZ–02]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Aqua	–	up to 100	solvent
A	Citric Acid	–	q.s	pH modifier
A	Polyquaternium–10	–	0.15	conditioning agent
A	**Disodium Laureth Sulfosuccinate**	**EXOsoft L3/40**	**2.50**	**surfactant**
A	**Sodium Laureth Sulfate**	**SULFOROKAnol L227/1**	**30.00**	**surfactant**
A	**Sodium Lauroyl Sarcosinate**	**ROKAtend LS**	**15.00**	**surfactant**
B	**PEG–7 Glyceryl Cocoate**	**ROKAcet KO300G**	**1.50**	**re – oiling agent**
B	PEG–120 Methyl Glucose Dioleate	–	1.00	thickening agent
C	Parfum	–	0.50	fragrance
C	Ehylhexyl Glycerine, Phenoxyethanol	–	1.00	preservative
C	**Cocamidopropyl Betaine**	**ROKAmina K30**	**6.00**	**surfactant**
D	**Sodium Laureth Sulfate, Cocamide DEA, Glycol Distearate**	**EXOpearl N**	**1.00**	**pearling agent**
E	Sodium Chloride	–	1.40	viscosity modifier

Appearance	visual method	viscosus, pearl gel
pH		5.0 – 7.0
Viscosity [cP]	Brookfield LV, spindle 34 , speed 2.5 RPM, T: 25°C	3000 – 6000
Stability	1 month at 5°C, RT, 40°C	confirmed

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.
   NOTE. Add Polyquaternium–10 and mix untill homogenous liquid is obtained. Add the rest of the phase A components.
2. Cool the batch down to at least 50°C.
3. Add PEG–120 Methyl Glucose Dioleate and PEG–7 Glyceryl Cocoate during mixing. Mix until uniform. Cool the batch down to at least 35°C.
4. Add fragrance, Cocamidopropyl Betaine and preservative during mixing. Mix until uniform.
5. Add pearling agent. Mix until uniform.
6. Add NaCl to adjust the viscosity.
   NOTE. Add salt (not in one go) – after addition of each portion mix well.
7. Control the pH range – if necessary, add Citric Acid. Mix well after adjustment.
8. Control the viscosity if necessary, add Sodium Chloride.

Shampoo for children from 3 years old [KD–37]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Aqua	–	up to 100	solvent
A	Sodium Benzoate, Potassium Sorbate	–	0.50	preservative
A	Betaine	–	1.00	active
A	Lactic Acid	–	0.25	pH adjuster
A	Benzophenone–4	–	0.05	UV filter
A	CI 42090	–	q.s.	colorant
B	**Ammonium Laureth Sulfate**	**SULFOROKAnol A325/1**	**30.00**	**surfactant**
C	Polyquaternium–7	–	0.25	conditioner
C	PEG–120 Methyl Glucose Dioleate	–	0.50	thickener
C	**PEG–7 Glyceryl Cocoate**	**ROKAcet KO300G**	**0.50**	**surfactant**
D	**Cocamidopropyl Betaine**	**ROKAmina K30K**	**6.00**	**surfactant**
E	Parfum	–	0.30	fragrance
E	**Sodium Laureth Sulfate, Cocamide DEA, Glycol Distearate**	**EXOpearl N**	**1.00**	**surfactant**
F	Sodium Chloride	–	1.80	thickener

Appearance	visual method	pearl, light – blue gel
pH		4.8 – 5.3
Viscosity [cP]	Brookfield LV, spindle 34 , speed 2.5 RPM, T: 25°C	3000 – 8000
Stability	1 month at 5°C, RT, 40°C	confirmed

Procedure:

1. In a main vessel combine ingredients from phase A. Heat up to 55 – 60°C. Mix until uniform.
2. Add Ammonium Laureth Sulfate. Mix until uniform.
3. Add ingredients from phase C. Mix until uniform. Cool the batch down to 30°C.
4. Add slowly Cocoamidopropyl Betaine while mixing. Mix until uniform.
5. Add ingredients from phase E. Mix until uniform.
6. Add Sodium Chloride while mixing (Add small portions and dissolve).

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