



# 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.



## 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	EXOppearl N	1.00	pearling agent
C	Parfum	–	0.50	fragrance

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

### Procedure:

- 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.
- Combine ingredients from phase B. Add ingredients from phase B to warm water (40 – 45°C). Mix until homogenous solution is obtained.
- Add phase B to phase A. Mix until homogenous solution is obtained. Cool the batch down to 30°C.
- Adjust pH to 4.8 – 5.5 by using Citric Acid. Mix well after adjustment.
- 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

<b>Appearance</b>	visual method	viscosus, pearl gel
<b>pH</b>		5.0 – 5.5
<b>Viscosity [cP]</b>	Brookfield LV, spindle 34 , speed 4 RPM, 25°C	3000 – 6000
<b>Stability</b>	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

<b>Appearance</b>	visual method	pearly gel
<b>pH</b>		4.0 – 4.5
<b>Viscosity [cP]</b>	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	3000 – 8000
<b>Stability</b>	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	Ethylhexylglycerin, 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

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

### Procedure:

- 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 until homogenous liquid is obtained. Add the rest of the phase A components.
- Cool the batch down to at least 50°C.
- 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.
- Add fragrance, Cocamidopropyl Betaine and preservative during mixing. Mix until uniform.
- Add pearling agent. Mix until uniform.
- Add NaCl to adjust the viscosity.  
*NOTE.* Add salt (not in one go) – after addition of each portion mix well.
- Control the pH range – if necessary, add Citric Acid. Mix well after adjustment.
- 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	<b>Ammonium Laureth Sulfate</b>	<b>SULFOROKAnol A325/1</b>	<b>30.00</b>	<b>surfactant</b>
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	<b>Sodium Laureth Sulfate, Cocamide DEA, Glycol Distearate</b>	<b>EXOpEarl N</b>	<b>1.00</b>	<b>surfactant</b>
F	Sodium Chloride	–	1.80	thickener

<b>Appearance</b>	visual method	pearl, light – blue gel
<b>pH</b>		4,8 – 5,3
<b>Viscosity [cP]</b>	Brookfield LV, spindle 34 , speed 2.5 RPM, T: 25°C	3000 – 8000
<b>Stability</b>	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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