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*Designed with  
the thought  
about you*

**EXOpearl N**

PEARLING AGENT

## 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 formulations



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 (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
	Xanthan Gum		0.65	viscosity modifier
	Glycerin		2.00	moisturising agent
	Sodium Benzoate, Potassium Sorbate		0.60	preservative
B	Aqua		15.70	solvent
	Magnesium Laureth Sulfate	EXOsoft MGB	20.00	primary surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	10.00	primary surfactant
	Cocamidopropyl Betaine	ROKAmina K30	3.40	secondary surfactant
C	Citric Acid		q.s	pH modifier
	Sodium Laureth Sulfate, Cocamide DEA, Glycol Distearate	EXOpearl N	1.00	pearling agent
	Parfum		0.50	fragrance composition

	APPEARANCE	visual method	viscous pearling gel
	pH		4.8 - 5.5
	VISCOSITY [cP]	Brookfield LV, spindle 34 , speed 4 RPM, 25°C	6000 - 9000
	STABILITY	1 month in 5°C, 20°C, 40°C,	confirmed

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
	Citric Acid		q.s	pH modifier
	Polyquaternium 10		0.06	conditioning agent
	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	2.50	surfactant
	Sodium Laureth Sulfate	SULFOROKAnol L227/1	20.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	20.00	surfactant
	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
	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
	Citric Acid		0.17	pH modifier

	APPEARANCE	visual method	viscosus, pearl gel
	pH		5.0 – 5.5
	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

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
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Betaine		0.50	active
	Glycerin		1.00	moisturising agent
	Lactic Acid		q.s.	pH adjuster
B	Magnesium Laureth Sulfate	EXOsoft MGB	24.00	surfactant
	PEG-120 Methyl Glucose Dioleate		0.25	thickener
C	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	0.50	surfactant
	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

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
	Citric Acid		q.s	pH modifier
	Polyquaternium 10		0.15	conditioning agent
	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	2.50	surfactant
	Sodium Laureth Sulfate	SULFOROKAnol L227/1	30.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	15.00	surfactant
B	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.50	re-oiling agent
	PEG-120 Methyl Glucose Dioleate		1.00	thickening agent
C	Parfum		0.50	fragrance
	Ethylhexyl Glycerine, Phenoxyethanol		1.00	preservative
	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	viscous, 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

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 homogeneous 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
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Betaine		1.00	active
	Lactic Acid		0.25	pH adjuster
	Benzophenone-4		0.05	UV filter
	CI 42090		q.s.	colorant
B	Ammonium Laureth Sulfate	SULFOROKAnol A325/1	30.00	surfactant
C	Polyquaternium-7		0.25	conditioner
	PEG-120 Methyl Glucose Dioleate		0.50	thickener
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	0.50	surfactant
D	Cocamidopropyl Betaine	ROKAmina K30K	6.00	surfactant
E	Parfum		0.30	fragrance
	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

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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