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Exol

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the thought
about you*

ROKAnol[®] SP15L

PPG-15 STEARYL ETHER

Description

- emollient
- lubricating agent
- washing agent
- cleanser, moisturizer
- softener to the skin
- skin moisturizing agent

Application

- skin care products
- deodorants
- antiperspirants
- hair styling products
- conditioners
- make-up removers
- hand creams, suncreams
- shaving foams
- liquid soaps
- face care products
- shampoos
- shower oils



in line with
cosmetic trends



guarantee the
consumer satisfaction



improvement of Personal
Care formulations



innovative
product



value
for money

ROKAnol SP15L

PPG-15 STEARYL ETHER

Chemical name	Poly(oxypropylene)stearyl ether	
INCI name	PPG-15 Stearyl Ether	
CAS NUMBER	25231-21-4	
FUNCTION	Emolient, lubricating agent	
Technical requirements	Appearance at temperature (20÷25)°C	clear oily liquid
	Colour (Hazen units) at (20÷25)°C	max. 100
	Hydroxyl value, mg KOH/g	62 ÷ 77
	Acid value, mg KOH/g	max. 2
	Water, %(m/m)	max. 0.7
	The sum of K+ and Na+, mg/L	max. 20
	BHT content, % (m/m)	0.08 ÷ 0.12
	Peroxide value, meq O ₂ /kg	max. 5
General data	Molecular weight, g/mol	approx. 700
	Density at 20°C, g/mL	approx. 0.94
	Viscosity at 20°C, cP	approx. 100
	Solidification point, °C	approx. 0

Body emulsion [KD-81]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Cetearyl Alcohol	EXOalc 1618 flakes	2.50	emulsion stabilizer
	Ceteareth-25	ROKAnol T25	1.50	emulsifier
	Petrolatum		1.00	emollient
	Helianthus Annuus Seed Oil		3.00	emollient
	PPG-15 Stearyl Ether	ROKAnol SP15L	4.00	emollient
B	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.80	preservative
	PEG-7/PPG-2 Propylheptyl ether	ROKAnol GA7LAW	1.00	emollient
	Betaine		1.00	active
	Glycerin		2.00	solvent
	Aqua		80.41	solvent
C	Carbomer		0.25	rheology modifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	2.00	emollient
D	Sodium Hydroxide		0.14	pH adjuster
	Parfum		0.40	fragrance



APPEARANCE	visual method	white emulsion
pH		5.0 - 7.0
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

1. In a separate vessells combine ingredients from phase A, B and C.

2. Heat phase A and B to 75-80°C.

3. Add B into A, stir well with hand stirring, keep A/B at 75-80°C. Homogenize with 2000-3000 RPM, 120 sec.
4. Cool the batch down to 50°C while mixing. Add phase C ingredients while mixing. Homogenize with 2500-3500 RPM, 120 sec.

5. Cool the batch down to 25°C. Add phase D ingredients while mixing. Homogenize with 2500-3500 RPM, 120 sec.

Body lotion [KD-82]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Cetearyl Alcohol	EXOalc 1618 flakes	2.50	emulsion stabilizer
	Cetareth-12	ROKAnol T12	1.00	emulsifier
	Petrolatum		2.00	emollient
	Helianthus Annuus Seed Oil		1.00	emollient
	PPG-15 Stearyl Ether	ROKAnol SP15L	6.00	emollient
B	Glyceryl Stearate, PEG-100 Stearate		1.50	emulsifier
	Aqua		78.35	solvent
	PEG-7/PPG-2 Propylheptyl ether	ROKAnol GA7LAW	1.00	emollient
	Betaine		2.00	active
	Glycerin		2.00	solvent
C	Carbomer		0.30	rheology modifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	1.00	emollient
D	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		1.00	preservative
	Sodium Hydroxide		0.05	pH adjuster
	Parfum		0.30	fragrance



APPEARANCE	visual method	white emulsion
pH		5.0 – 7.0
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

1. In a separate vessel combine ingredients from phase A, B and C. Heat the phase A and B to 75-80°C.

2. Add A into B, stir well with hand stirring, keep A/B at 75-80°C. Homogenize with 2000-3000 RPM, 120 sec.

3. Cool the batch down to 50°C while mixing. Add ingredients from phase C and D while mixing. Homogenize with 2500-3500 RPM, 120 sec.

4. Cool the batch down to 25°C. Add phase E while mixing. Homogenize with 2500-3500 RPM, 120 sec.

Hand cream [KD-83]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Cetearyl Alcohol	EXOalc 1618 flakes	4.00	emulsion stabilizer
	Glyceryl Stearate, PEG-100 Stearate		2.00	emulsifier
	Ceteareth-12	ROKAnol T12	1.50	emulsifier
	Helianthus Annuus Seed Oil		1.00	emollient
	Petrolatum		0.50	emollient
	Stearic Acid		1.50	rheology modifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	8.00	emollient
B	Aqua		58.00	solvent
	Betaine		2.00	active
	Glycerin		20.00	solvent
C	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		1.00	preservative
D	Parfum		0.50	fragrance



APPEARANCE	visual method	white emulsion
pH		5.0 – 7.0
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

1. In a separate vessel combine ingredients from phase A and B.


2. Heat phase A and B to 75-80°C.

3. Add A into B while mixing, keep A/B at 75-80°C. Homogenize with 2000-3000 RPM, 120 sec.
4. Cool the batch down to 50°C while mixing. Add phase C ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec.

5. Cool the batch down to 25°C. Add phase D ingredients while mixing. Homogenize with 2500-3500 RPM, 30 sec.

Night face cream [KD-84]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Glyceryl Stearate, PEG-100 Stearate		2.50	emulsifier
	Cetareth-12	ROKAnol T12	1.00	emulsifier
	Cetearyl Alcohol	EXOalc 1618 flakes	2.00	emulsion stabilizer
	PPG-15 Stearyl Ether	ROKAnol SP15L	4.00	emollient
	Caprylic/Capric Triglyceride		5.00	emollient
	Stearic Acid		1.00	rheology modifier
	Helianthus Annuus Seed Oil		2.00	emollient
	Butyrospermum Parkii Butter		1.00	emollient
	Aqua		73.10	solvent
	Betaine		5.00	active
C	Glycerin		2.00	solvent
	Xanthan Gum		0.10	rheology modifier
D	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.20	rheology modifier
E	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.80	preservative
	Sodium Hydroxide		0.05	pH adjuster
F	Parfum		0.25	fragrance

	APPEARANCE	visual method	white emulsion
	pH		5.0 – 7.0
	STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

1. In a separate vessel combine ingredients from phase A and B.

2. Add slowly phase D ingredients to phase B while mixing. Mix until uniform.

3. In a separate vessel combine ingredients from phase C. Mix until uniform. Add slowly phase C ingredients to phase B while mixing. Homogenize with 2000-3000 RPM, 90 sec.
4. Heat phase A and B to 75-80°C.

5. Add A into B while mixing, keep A/B at 75-80°C. Homogenize with 2000-3000 RPM, 120 sec.

6. Cool the batch down to 50°C while mixing. Add phase E ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec.

7. Cool the batch down to 25°C. Add phase F ingredients while mixing. Homogenize with 2500-3500 RPM, 120 sec.

Make-up removing milk [KD-85]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Ceteareth-12	ROKAnol T12	1.00	emulsifier
	Ceteareth-25	ROKAnol T25	1.00	emulsifier
	Cetearyl Alcohol	EXOalc 1618 flakes	2.00	emulsion stabiliser
	PPG-15 Stearyl Ether	ROKAnol SP15L	5.00	emollient
	Helianthus Annuus Seed Oil		1.00	emollient
	Caprylic/Capric Triglyceride		2.00	emollient
B	Aqua		83.35	solvent
	Betaine		0.50	active
C	Glycerin		1.00	moisturising agent
	Xanthan Gum		0.05	rheology modifier
D	Carbomer		0.25	rheology modifier
E	Sodium Hydroxide		0.05	pH adjuster
	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.80	preservative
F	PEG-7/PPG-2 Propylheptyl ether	ROKAnol GA7LAW	2.00	emollient



APPEARANCE
pH
STABILITY

visual method	white emulsion
1 month in 5°C, 20°C, 40°C	5.0 – 7.0 confirmed

1. In a separate vessel combine ingredients from phase A, B and C.
 2. Add slowly phase D ingredients to phase B while mixing. Mix until uniform.
 3. Add slowly phase C ingredients to phase B while mixing. Homogenize with 2000-3000 RPM, 90 sec.
 4. Heat phase A and B to 75-80°C.
 5. Add A into B, stir well with hand stirring,
- keep A/B at 75-80°C. Homogenize with 2000-3000 RPM, 120 sec.
 6. Cool the batch down to 50°C while mixing. Add phase E ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec.
 7. Cool the batch down to 25°C. Add phase F ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec.

Creamy face scrub [KD-91]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Cetareth-12	ROKAnol T12	1.50	emulsifier
	Cetareth-25	ROKAnol T25	0.50	emulsifier
	Cetearyl Alcohol	EXOalc 1618 flakes	3.00	emulsion stabilizer
	PPG-15 Stearyl Ether	ROKAnol SP15L	6.00	emollient
	Caprylic/Capric Triglyceride		1.00	emollient
	Helianthus Annuus Seed Oil		5.00	emollient
	Butyrospermum Parkii Butter		0.50	emollient
	Tocopheryl Acetate		0.20	active
B	Aqua		73.68	solvent
	Betaine		1.00	active
	Glycerin		4.00	solvent
	Pentylene Glycol		2.00	solvent
	Magnesium Aluminum Silicate		0.10	rheology modifier
C	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.27	rheology modifier
D	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.50	preservative
	Sodium Hydroxide		0.10	pH adjuster
E	Parfum		0.30	fragrance
	Cellulose acetate		0.35	abrasive



APPEARANCE	visual method	white emulsion
pH		5.0 – 7.0
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

1. In a main vessel combine ingredients from the phase B. Add Pentylene Glycol, Glycerin, Betaine to the water. Add Magnesium Aluminum Silicate while mixing. Mix for 10 min - 150-200 RPM. Homogenize with 2000-3000 RPM, 5-6 min.

2. Add Acrylates/C10-30 Alkyl Acrylate Crosspolymer while mixing. Mix for 10 min - 100-150 RPM. Homogenize with 700-1000 RPM, 60-90 sec.

3. In separate vessel combine ingredients from phase A

4. Heat phase A and B to 75-80°C.

5. Add A into B, while mixing, keep A/B at 75-80°C. Homogenize with 2000-3000 RPM, 120 sec.

6. Cool the batch down to 50°C while mixing. Add phase D ingredients while mixing. Homogenize with 2500-3000 RPM, 120 sec.

7. Cool the batch down to 25°C while mixing.

8. Add Parfum and abrasive while mixing. Mix until uniform.

Moisturizing gel after shaving [KD-101]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Aqua		91.2499	solvent
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.40	rheology modifier
	Betaine		2.00	active
	CI 42090		0.0001	colorant
B	Sodium Hydroxide		0.15	pH adjuster
C	Parfum		0.30	fragrance
	PPG-15 Stearyl Ether	ROKAnol SP15L	3.00	emollient
	Caprylic/Capric Triglyceride		2.00	emollient
	Starch hydroxypropyl trimonium chloride		0.10	conditioner
	Phenoxyethanol, Ethylhexylglycerin		0.80	preservative

APPEARANCE	visual method	blue opaque gel
pH		4.5 - 5.5
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed



1. In a separate vessel combine ingredients from phase A. Add slowly Acrylates/C10-30 Alkyl Acrylate Crosspolymer to water while mixing. Mix until uniform. Add other phase A components.
2. Homogenize with 2000-3000 RPM, 90-120 sec.
3. Add phase C ingredients while mixing. Homogenize with 2000-3000 RPM, 90-120 sec.

Face mask [KD-120]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Ceteareth-12	ROKAnol T12	2.00	emulsifier
	Ceteareth-25	ROKAnol T25	0.50	emulsifier
	Cetearyl Alcohol	EXOalc 1618 flakes	3.00	emulsion stabilizer
	PPG-15 Stearyl Ether	ROKAnol SP15L	5.00	emollient
	Caprylic/Capric Triglyceride		5.00	emollient
	Glycine Soja Oil		2.50	emollient
	Stearic Acid		1.00	rheology modifier
	Tocopheryl Acetate		0.50	active
	Butyrospermum Parkii Butter		1.00	emollient
B	Aqua		71.50	solvent
	Pentylene Glycol		2.50	solvent
	Betaine		1.00	active
	Magnesium Aluminum Silicate		1.00	rheology modifier
C	Kaolin		3.00	absorbent
	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.50	preservative



APPEARANCE
pH
STABILITY

visual method
slightly gray emulsion
5.0 - 7.0
1 month in 5°C, 20°C, 40°C
confirmed

1. In a main vessel combine ingredients from the phase B. Add Pentylene Glycol, Betaine to the water. Add Magnesium Aluminum Silicate while mixing. Homogenize with 2000-3000 RPM, 5-6 min.

2. In separat vessel combine ingredients from the phase A
3. Heat phase A and B to 75-80°C.

4. Add A into B, while mixing, keep A/B at 75-80°C. Homogenize with 2000-3000 RPM, 120 sec.

5. Cool the batch down to 50°C while mixing. Add phase C ingredients while mixing. Ho-mogenize with 2500-3500 RPM, 120 sec.

6. Cool the batch down to 25°C.



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