



ROKAnol SP Series

PPG-15 Stearyl Ether

Local. Global. Integrated.

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 SP Series

PPG-15 Stearyl Ether

Product name	ROKAnol SP15L	ROKAnol SP15T	ROKAnol SP11
Chemical name	Poly(oxypropylene) stearyl ether	Poly(oxypropylene) stearyl ether	Poly(oxypropylene) stearyl ether
INCI name	PPG-15 Stearyl Ether	PPG-15 Stearyl Ether	PPG-15 Stearyl Ether
CAS number	25231-21-4	25231-21-4	25231-21-4
Function	Emolient, lubricating agent	Emolient, lubricating agent	Emolient, lubricating agent
Technical requirements	Appearance at temperature (20÷25)°C	Appearance at temperature (20÷25)°C	Appearance at temperature (20÷25)°C
	clear oily liquid Colour (Hazen units) at (20÷25)°C	max. 100	max. 50
	Hydroxyl value, mg KOH/g	max. 100	max. 100
	Acid value, mg KOH/g	62 ÷ 77	62 ÷ 77
	Water, %(m/m)	max. 2	max. 2
	BHT content, % (m/m)	max. 0.7	max. 0.7
	Peroxide value, meq O ₂ /kg	0.08 ÷ 0.12	–
	Molecular weight, g/mol	max. 5	max. 5
General data	Density at 20°C, g/mL	approx. 700	approx. 700
	Viscosity at 20°C, cP	approx. 0.94	approx. 0.94
	Solidification point, °C	approx. 100	approx. 100
	Tocopherol content, ppm (m/m)	approx. 0	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/ ROKAnol SP15T/ ROKAnol SP11	4.00	emollient
B	Phenoxyethanol		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/ ROKAnol SP15T/ ROKAnol SP11	2.00	emollient
C	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

Procedure:

1. In a separate vessels 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
	Ceteareth-12	ROKAnol T12	1.00	emulsifier
	Petrolatum		2.00	emollient
	Helianthus Annuus Seed Oil		1.00	emollient
	PPG-15 Stearyl Ether	ROKAnol SP15L/ ROKAnol SP15T/ ROKAnol SP11	6.00	emollient
	Glyceryl Stearate, PEG-100 Stearate		1.50	emulsifier
B	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/ ROKAnol SP15T/ ROKAnol SP11	1.00	emollient
D	Phenoxyethanol		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

Procedure:

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/ ROKAnol SP15T/ ROKAnol SP11	8.00	emollient
B	Aqua		58.00	solvent
	Betaine		2.00	active
	Glycerin		20.00	solvent
C	Phenoxyethanol		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

Procedure:

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
	Ceteareth-12	ROKAnol T12	1.00	emulsifier
	Cetearyl Alcohol	EXOalc 1618 flakes	2.00	emulsion stabilizer
	PPG-15 Stearyl Ether	ROKAnol SP15L/ ROKAnol SP15T/ ROKAnol SP11	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
B	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		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

Procedure:

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/ ROKAnol SP15T/ ROKAnol SP11	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		0.80	preservative
F	PEG-7/PPG-2 Propylheptyl ether	ROKAnol GA7LAW	2.00	emollient

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

Procedure:

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	Ceteareth-12	ROKAnol T12	1.50	emulsifier
	Ceteareth-25	ROKAnol T25	0.50	emulsifier
	Cetearyl Alcohol	EXOalc 1618 flakes	3.00	emulsion stabilizer
	PPG-15 Stearyl Ether	ROKAnol SP15L/ ROKAnol SP15T/ ROKAnol SP11	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		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

Procedure:

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/ ROKAnol SP15T/ ROKAnol SP11	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

Procedure:

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/ ROKAnol SP15T/ ROKAnol SP11	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		0.50	preservative

Appearance	visual method	slightly gray emulsion
pH		5.0 – 7.0
Stability	1 month in 5°C, 20°C, 40°C	confirmed

Procedure:

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. Homogenize with 2500-3500 RPM, 120 sec.
6. Cool the batch down to 25°C.





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The information in the catalogue is believed to be accurate and compiled to the best of our knowledge; however, it should be considered as introductory only. Detailed information about our products is available in TDS and MSDS.

The suggestions for product applications are based on our best knowledge.

The responsibility for the use of products in conformity or otherwise with the suggested application, and for determining product suitability for the user's own purposes rests with the user.

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