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 stylying 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

		ROKAnol SP15L	ROKAnol SP15T	ROKAnol SP11
Product name				
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	Appearance at temperature (20÷25)°C	Emolient, lubricating agent	Emolient, lubricating agent	Emolient, lubricating agent
Technical requirements	Appearance at temperature (20÷25)°C clear oily liquid Colour (Hazen units) at (20÷25)°C	max. 100	max. 50	max. 100
	Hydroxyl value, mg KOH/g	62 ÷ 77	62 ÷ 77	62 ÷ 77
	Acid value, mg KOH/g	max. 2	max. 2	max. 2
	Water, %(m/m)	max. 0.7	max. 0.7	max. 0.7
	BHT content, % (m/m)	0.08 ÷ 0.12	–	–
	Peroxide value, meq O2 /kg	max. 5	max. 5	–
	Molecular weight, g/mol	approx. 700	approx. 700	approx. 700
General data	Density at 20°C, g/mL	approx. 700	approx. 0.94	approx. 0.94
	Viscosity at 20°C, cP	approx. 100	approx. 100	approx. 100
	Solidification point, °C	approx. 0	approx. 0	approx. 0
	Tocopherol content, ppm (m/m)	–	approx. 70	–

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 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**
	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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