



ROKAnol[®] SP15L

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 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 |
| 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 | 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 | 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 |

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 | 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 |

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 | 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, 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 |

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 | 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 | 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 | 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 |

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 | 3.00 | emollient |
| | Caprylic/Capric Triglyceride | | 2.00 | emollient |
| | Starch hydroxypropyl trimonium chloride | | 0.10 | conditioner |
| | Phenoxyethanol, Ethylhexylglycerin | | 0.80 | preservative |

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|-------------------|----------------------------|-----------------|
| 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 | 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 | 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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