

## PERSONAL CARE

Formulation Guide



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# LIQUID HAND SOAPS

**Liquid hand soap** is a product formulated to wash and clean hands. It belongs to the group of common dirt removers in commercial and industrial cleaning processes. Liquid hand soaps are the most widely used products in cleaning sector.

Liquid hand soaps can be characterized by different features which are dependent on their components. There are plenty of various products available on the market such as liquid hand soaps for babies, mechanical workers, traditional or economic products.

Liquid hand soaps have to be effective general-purpose cleaners, easy to apply and use and their suppose to be capable of removing different types of dirt such as vegetable and animal oils, fat, wax deposits, dust and many others.

According to WHO, 70% cases of gastrointestinal intoxication, skin infections and conjunctivitis are caused by the germs transmitted to hands.



On one square centimeter of the skin there are plenty of various bacteria. All these germs are transferred every day from human to human when shaking hands, holding on to the handles in public transport, touching coins and banknotes that come into contact with hundreds of hands a day.

Only proper hand hygiene will protect us against dangerous germs and bugs. That is the reason why hands should be oftently washed with the usage of an appropriate designed formulations.



#### **LIQUID HAND SOAP [RD-01]**

Sodium Benzoate, Potassium Sorbate  0.50	solvent preservative surfactant
Potassium Sorbate 0.50	•
MEA Lauryl Sulfate ROSULfan M 12.00	surfactant
Sodium Laureth Sulfate SULFOROKAnol L227/1 10.00	surfactant
Cocamide DEA ROKAmid KAD 1.00	surfactant
PEG-7 Glyceryl Cocoate ROKAcet KO300G 1.00	re-oiling agent
<b>B</b> Parfum 0.30	fragrance
Cocamidopropyl Betaine ROKAmina K30 7.00	surfactant
Sodium Chloride 0.80	viscosity modifier
C Citric Acid q.s.	pH modifier



APPEARANCE	visual method	clear, homogenous liquid
рН		4.8 - 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

### **Procedure:**

- **1.** Add ingredients from phase A to warm water (50-55°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- 3. Add parfum and Cocamidopropyl Betaine during mixing. Mix until homogenous solution is obtained.
- 4. If necessary, add Sodium Chloride to adjust the viscosity. NOTE: it is very important to equilibrate a sample at 25°C for at least one hour to get an accurate viscosity measurement.
- 5. If necessary, adjust pH by Citric Acid to 4.8 5.5.

## **TRADITIONAL LIQUID SOAP [MP-01]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	Benzophenone-4		0.05	UV absorber
	Sodium Laureth Sulfate	SULFOROKAnol L227/1	30.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	5.00	surfactant
	Citric Acid		0.25	pH modifier
	Sodium Benzoate, Potassium Sorbate		0.60	preservative
В	Parfum		0.50	fragrance
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.00	re-oiling agent
	CI 19140		q.s.	colorant
	Cocamidopropyl Betaine	ROKAmina K30	7.00	surfactant
С	Sodium Chloride		2.20	viscosity modifier



	APPEARANCE	visual method	bright-yellow gel
рН			4.8 - 5.5
	VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	2500 - 5000
	STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Add ingredients from phase A to the warm water (45-50°C). Mix until uniform.
- 2. Cool the batch down to at least 35°C.
- **3.** Add fragrance, PEG-7 Glyceryl Cocoate and colorant during mixing. Mix until uniform.
- **4.** Add slowly Cocamidopropyl Betaine during mixing. Mix until uniform.
- 5. Add Sodium Chloride to adjust the viscosity. NOTE. Add salt (not in one go) after addition of each portion mix well.
- 6. Control the pH range if necessary, add citric acid. Mix well after adjustment.
- 7. Control viscosity if necessary, add Sodium Chloride.

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#### **LIQUID BLACK SOAP FOR MEN [MP-02]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		48.23	solvent
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		1.00	viscosity modifier
В	Aqua		16.00	solvent
	Sodium Lauroyl Glycinate	ROKAtend GL	5.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	20.00	surfactant
	Cocamidopropyl Betaine	ROKAmina K30	7.00	surfactant
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.00	re-oiling agent
С	Parfum		0.50	fragrance
	Activated Charcoal		0.02	black color additive
	Ehylhexyl Glycerine, Phenoxyethanol		1.00	preservative
D	Sodium Hydroxide (30% solution)		0.25	pH modifier



APPEARANCE	visual method	black, viscous gel
рН		5.5 - 6.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 20°C	15000 - 20000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Pour the warm deionized water (40-50°C) into the main vessel and add the Acrylates/C10-30 Alkyl Acrylate Crosspolymer. Start mixing when the agent is completely wetted. Mix until the homogenous solution is obtained.
- 2. Combine ingredients from phase B in a separate vessel. Heat up to 60°C with gentle agitation. 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. When the batch is around 30°C, add preservative, Activated Charcoal and fragrance. Mix for 20-30 minutes with slow agitation. If necessery, homogenise for 1-2 minutes.
- 4. Readjust the final pH to 5.5-6.5 with additional Sodium Hydroxide (30%) if necessary.

### MILD YELLOW HAND SOAP [MP-03]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		46.55	solvent
	Potassium Oleate		8.00	surfactant
	Sodium Lauroyl Glycinate	ROKAtend GL	25.00	surfactant
	Decyl Glucoside		7.00	surfactant
В	Citric Acid		0.20	pH modifier
С	Parfum		0.50	fragrance
	Benzy Alcohol, Ethylhexyglycerin, Tocopherol		1.00	preservative
	Cocamidopropyl Betaine	ROKAmina K30	10.00	surfactant
	Sodium Chloride		1.75	viscosity modifier



APPEARANCE	visual method	yellow liquid
рН		8.5 - 9.0
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	3000 - 5000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Into the large vessel (big enough to provide adequate mixing while preparing batch) pour deionized water.
- 2. Add ingredients from phase A to the vessel while mixing. Heat up to 70 75°C. Mix until homogenous solution is obtained.
- 3. Cool the batch down to at least 35°C.

- 4. Adjust pH to 8.5 9.0 by using Citric Acid. Mix well after adjustment.
- 5. Add fragrance, preservative and Cocamidopropyl Betaine. Mix until homogenous solution is obtained.
- 6. If necessary, add Sodium Chloride to adjust the viscosity. NOTE: it is very important to equilibrate a sample at 25°C for at least one hour to get an accurate viscosity measurement.



## MILD LIQUID HAND SOAP [MP-04]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		74.50	solvent
	Potassium Oleate		4.00	surfactant
	MIPA Laureth Sulfate and Propylene Glycol	SULFOROKAnol L390/1M	1 10.00	surfactant
	Cocamide DEA	ROKAmid KAD	1.50	surfactant
	Parfum		0.50	fragrance
	Ehylhexyl Glycerine, Phenoxyethanol		1.00	preservative
	Cocamidopropyl Betaine	ROKAmina K30K	7.00	surfactant
	Sodium Chloride		1.50	viscosity modifier



APPEARANCE	visual method	clear yellowish gel
рН		8.5 - 9.0
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 4.0 RPM, T: 25°C	3000 - 6000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Heat up the water to (40-50°C) and add the ingredients one after another in the order from the table above.
- 2. Before adding a parfum cool the mixture down to room temperature and add the rest of ingredients.
- 3. Add Sodium Chloride to adjust the viscosity. NOTE. Add salt (not in one go) after addition of each portion mix well.

## **ECONOMIC LIQUID HAND SOAP [KD-103]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Aqua		up to 100	solvent
	Sodium Laureth Sulfate, Cocamidopropyl Betaine, Coco-Glucoside	EXOcare PC60	8.00	surfactant
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Betaine		0.50	active
	Lactic Acid		0.15	pH adjuster
	Cocamide DEA	ROKAmid KAD	0.50	surfactant
В	Parfum		0.50	fragrance
	CI 42090		q.s.	colorant
	CI 19140		q.s.	colorant
С	Sodium Chloride		2.50	thickener



APP	EARANCE	visual method	light-green, viscous gel
рН			4.8 - 5.3
VISC	OSITY [cP]	Brookfield LV, spindle 34, speed 3.0 RPM, T: 25°C	2000 - 5000
STAI	BILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Combine ingredients from phase A. Mix until uniform.
- 2. Add phase B ingredients. Mix until uniform.
- 3. Add Sodium Chloride while mixing. Mix until uniform.
- 4. Control viscosity and pH.

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# **SHOWER GELS**

Shower gels are designed to remove dirt, tallow and impurities of the epidermis, as well as prevent its drying. Products of this type should also adequately moisturize and nourish the skin.

#### There are plenty of different shower gels available on the market such as:

- pearly / transparent / coloured products,
- traditional / mild products,
- designed for babies / people with sensitive skin,
- moisturising products

and many others, although there are general requirements for this type of cosmetics.

The choice of products which contain an appropriate components, provides feeling of smoothness and softness to the skin.



#### In general, shower gels should be characterized by:

- good foaming properties (should quickly create high-volume, stable
- good wettability of dirt and fat on the skin,
- not causing the skin dryness and be safe for the environment,
- ability to disperse emulsified dirt particles in the bath,
- good performance in the presence of hard water,
- improving skin condition after bathing,
- not irritating efect to the eyes, mucous membranes and skin.





#### **SHOWER GEL WITH PEARLY EFFECT [ZP-01]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		46.12	solvent
	Citric Acid		0.15	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
В	PEG-120 Methyl Glucose Dioleate		0.50	thickening agent
С	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
рН		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

#### **Procedure:**

- 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.
- 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.

## **CLASSIC SHOWER GEL [ZP-02]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		49.15	solvent
	Citric Acid		0.20	pH modifier
	Lauryl Glucoside		5.00	surfactant
	Sodium Laureth Sulfate	SULFOROKAnol L227/1	15.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	20.00	surfactant
	Sodium Benzoate, Potassium Sorbate		0.60	preservative
В	PEG-120 Methyl Glucose Dioleate		0.70	thickening agent
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.50	re-oiling agent
С	Parfum		0.50	fragrance
	Cocamidopropyl Betaine	ROKAmina K30	5.00	surfactant
D	Citric Acid		0.20	pH modifier
	Sodium Chloride		2.15	viscosity modifier



APPEARANCE	visual method	clear, viscosus gel
рН		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

#### **Procedure:**

- Add ingredients from phase A to the warm water (55-60°C).
   Mix until uniform.
- 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.
- Add fragrance and Cocamidopropyl Betaine during mixing. Mix until uniform.
- Add Sodium Chloride to adjust the viscosity. NOTE.
   Add salt (not in one go) after addition of each portion mix well.
- 6. Control the pH range if necessary, add Citric Acid. Mix well after adjustment.



### WHITE SHOWER GEL [ZP-03]

PHASE	INCI NAME BRAND	NAME (	CONCENTRATION [%]	FUNCTION
Α	Aqua		33.37	solvent
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.40	viscosity modifier
	Sodium Hydroxide (30% solution)		0.25	pH modifier
В	Aqua		20.00	solvent
	Xanthan Gum		0.45	viscosity modifier
	Glycerin		2.00	moisturising agent
	Polyquaternium 10		0.01	conditioning agent
С	Aqua		10.00	solvent
	Talc		2.00	skin conditioner
	Mica, Titanium dioxide		0.02	pearling agent
	Sodium Lauroyl Glycinate ROKAte	nd GL	10.00	surfactant
	Sodium Lauroyl Sarcosinate ROKAte	nd LS	20.00	surfactant
D	Parfum		0.50	fragrance
	Ehylhexyl Glycerine, Phenoxyethanol		1.00	preservative



APPEARANCE	APPEARANCE visual method	
рН		6.0 - 7.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	6000 - 9000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Pour the warm deionized water (40-50°C) into the main vessel and add the Acrylates/C10-30 Alkyl Acrylate Crosspolymer. Start mixing when the agent is completely wetted. Mix until the homogenous solution is obtained.
- 2. Add Sodium Hydroxide. Mix until homogenous solution is obtained.
- 3. Combine ingredients from phase B in a separate vessel. Add Xanthan Gum to Glycerin mix until homogenous solution is obtained. Add warm water (40-50°C) and Polyquaternium-10. Mix until homogenous solution is obtained. If necessery, homogenise for 2-3 minutes.
- 4. Add phase B to main vessel. Mix until homogenous solution is obtained. If needed, homogenise for 2-3 minutes.
- 5. Combine ingredients from phase C in a separate vessel. Heat up to 40°C with gentle agitation. Mix until homogenous solution is obtained.
- 6. Add phase C to the main vessel. Mix until homogenous solution is obtained. Cool the batch down to 30°C.
- 7. Add fragrance and preservative. Mix gently until homogenous solution is obtained.

#### **BLACK-GOLD SHOWER GEL FOR MEN [ZP-04]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		67.09	solvent
	Xanthan Gum		0.90	viscosity modifier
	Glycerin		2.50	moisturising agent
	Sodium Benzoate, Potassium Sorbate		0.30	preservative
	Polyquaternium-7		0.01	conditioning agent
В	Ammonium Laureth Sulfate	SULFOROKAnol A325/1	24.00	surfactant
	CI 77000, CI 77491, Silica		0.03	pigment
	Activated Charcoal		0.02	pigment
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.00	re-oiling agent
	Cocamidopropyl Betaine	ROKAmina K30K	3.40	surfactant
	Parfum		0.30	fragrance
	Sodium Benzoate, Potassium Sorbate		0.30	preservative
	Citric Acid		0.15	pH modifier



APPEARANCE	visual method	black-gold gel
рН		4.8 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6.0 RPM, T: 25°C	8000 - 15000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- In a main vessel combine ingredients from phase A by adding Xanthan Gum to Glycerin and mixing until homogenous solution is obtained. Then, take 2.5 g of water from phase A to a separate beaker add Polyquaternium-7 and mix them well.
- 2. Add the rest of warm water (50-55°C) from phase A to the main vessel and homogenise for 1-2 minutes. At the and of preparation, mix the solutions, add preservative and homogenise for 2-3 minutes.
- Combine ingredients from the phase B and mix until uniform. Control the pH range – if necessary, add Citric Acid.
- 4. Add phase B to phase A and mix well. Cool the batch down to 30°C and homogenise for 2-3 minutes.



#### **BLACK SHOWER GEL FOR MEN [ZP-05]**

PHASE	INCI NAME B	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		56.58	solvent
	Xanthan Gum		0.90	viscosity modifier
	Glycerin		2.50	moisturising agent
	Sodium Benzoate, Potassium Sorbate		0.30	preservative
	Polyquaternium-7		0.01	conditioning agent
В	Aqua		1.24	solvent
	Ammonium Laureth Sulfate S	SULFOROKAnol A325/1	24.00	surfactant
	Sodium Lauroyl Sarcosinate R	OKAtend LS	10.00	surfactant
	Activated Charcoal		0.01	pigment
	Parfum		0.50	fragrance
	Sodium Benzoate, Potassium Sorbate		0.30	preservative
	Cocamidopropyl Betaine R	ROKAmina K30K	3.40	surfactant
	Citric Acid		0.26	pH modifier



APPEARANCE	visual method	black clear gel
рН		4.8 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6.0 RPM, T: 25°C	6000 - 15000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- 1. In a main vessel combine ingredients from phase A by adding Xanthan Gum to Glycerin and mixing until homogenous solution is obtained. Then, take 2.5 g of water from phase A to a separate beaker add Polyquaternium-7 and mix them well.
- 2. Add the rest of warm water (50-55°C) from phase A to the main vessel and homogenise for 1-2 minutes. At the and of preparation, mix the solutions, add preservative and homogenise for 2-3 minutes.
- 3. Combine ingredients from the phase B and mix until uniform. Control the pH range if necessary, add Citric Acid.
- 4. Add phase B to phase A and mix well. Cool the batch down to 30°C and homogenise for 2-3 minutes.

#### MILD SHOWER GEL [ZP-10]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		65.76	solvent
	Xanthan Gum		0.90	viscosity modifier
	Glycerin		2.50	moisturising agent
	Sodium Benzoate, Potassium Sorbate		1.00	preservative
В	Aqua		1.95	solvent
	Magnesium Laureth Sulfate	EXOsoft MG	23.10	surfactant
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.00	surfactant
	Parfum		0.30	fragrance
	Cocamidopropyl Betaine	ROKAmina K30K	3.40	surfactant
	Citric Acid		0.09	pH modifier



APPEARANCE	visual method	colorless clear gel
рН		4.8 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6.0 RPM, T: 25°C	7000 - 15000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- In a main vessel combine ingredients from phase A. Add Xanthan Gum to glycerin – mix until homogenous solution is obtained. Then, pour warm water (50-55°C) from phase A to the main vessel and mix. Add preservative. Homogenise for 2-3 minutes.
- 2. Combine ingredients from the phase B and mix until uniform. Control the pH range if necessary, add Citric Acid.
- 3. Add phase B to phase A and mix well. Cool the batch down to 30°C and homogenise for 2-3 minutes.



### MILD BODY WASH EMULSION [RD-11]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Aqua		to 100	solvent
Α	Xanthan Gum		0.50	rhelogy modifier
В	Ceteareth-25	ROKAnol T25	2.00	emulsifier
В	Cetearyl Alcohol	EXOalc 1618 flakes	3.00	emulsion stabilizer
С	MIPA Laureth Sulfate and Propylene Glycol	SULFOROKAnol L390/1M	2.00	emollient
E	Sodium Lauroyl Sarcosinate	ROKAtend LS	5.00	surfactant
Α	Glycerin		2.00	solvent
С	Helianthus annuus Seed Oil		10.	emolient
Α	Phenoxyethanol, Ethylhexylglycerin		q.s	preservative
В	Stearic Acid		1.00	rhelogy modifier
	Lactic Acid		0.15	pH adjuster
D	Parfum		0.1	fragrance



APPEARANCE	visual method	white emulsion
рН		5.0 - 6.0
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- 1. In main vessel combine ingredients from the phase A.
- 2. Add Xanthan gum to Glycerin mix until homogenous solution is obtained.
- 3. Add the phase B components to phas A while mixing. Mix until uniform.
- 4. In a separate vessell combine ingredients from the phase C and add to main vessel.
- 5. Heat to 75-80°C.
- 6. At this temp of 75-80 C homogenize.
- 7. Cool the batch down to 40°C. Add phase D ingredients while mixing. Homogenize.
- 8. Cool the batch down to 25°C. Add phase E ingredients whiel mixing. Homogenize.

## **LIQUID SHOWER GEL FOR WOMEN [ZP-11]**

A Aqua 66.53 solvent  Xanthan Gum 0.90 viscosity modifi Glycerin 2.50 moisturising ag  Sodium Benzoate, Potassium Sorbate 0.30 preservative  B Aqua 8.30 solvent  MIPA Laureth Sulfate (and) Propylene Glycol SULFOROKAnol L390/1M 7.00 surfactant  Sodium Lauroyl Sarcosinate ROKAtend LS 10.00 surfactant
Glycerin 2.50 moisturising ag  Sodium Benzoate, Potassium Sorbate 0.30 preservative  B Aqua 8.30 solvent  MIPA Laureth Sulfate (and) Propylene Glycol SULFOROKAnol L390/1M 7.00 surfactant
Sodium Benzoate, Potassium Sorbate  B Aqua  8.30 solvent  MIPA Laureth Sulfate (and) Propylene Glycol  SULFOROKAnol L390/1M  7.00 surfactant
B Aqua 8.30 solvent  MIPA Laureth Sulfate (and) Propylene Glycol SULFOROKAnol L390/1M 7.00 surfactant
MIPA Laureth Sulfate SULFOROKAnol L390/1M 7.00 surfactant (and) Propylene Glycol
(and) Propylene Glycol SULFOROKAnol L390/1M 7.00 surfactant
Sodium Lauroyl Sarcosinate ROKAtend LS 10.00 surfactant
CI 77000, Acrylates Crosspolymer 0.02 pigment
Parfum 0.50 fragrance
Sodium Benzoate, Potassium Sorbate  0.30 preservative
Cocamidopropyl Betaine ROKAmina K30K 3.40 surfactant
Citric Acid 0.25 pH modifier



APPEARANCE	visual method	gold scintillating gel	
рН		4.8 - 5.5	
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6.0 RPM, T: 25°C	7000 - 15000	
STABILITY	1 month at 5°C, RT, 40°C	confirmed	

#### **Procedure:**

- 1. In a main vessel combine ingredients from phase A. Add Xanthan Gum to glycerin mix until homogenous solution is obtained. Then, pour warm water (50-55°C) from phase A to the main vessel and mix. Add preservative. Homogenise for 2-3 minutes.
- 2. Combine ingredients from the phase B and mix until uniform. Control the pH range if necessary, add Citric Acid.
- 3. Add phase B to phase A and mix well. Cool the batch down to 30°C and homogenise for 2-3 minutes.



## **MOISTURIZING BODY WASH GEL [KD-104]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		81.25	solvent
	Sodium Laureth Sulfate, Cocamidopropyl Betaine, Coco-Glucoside	EXOcare PC60	15.00	surfactant
	Aqua, Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Allantoin		0.10	active
	Lactic Acid		0.15	pH adjuster
В	PEG-120 Methyl Glucose Dioleate		0.50	thickener
	Parfum		0.50	fragrance
	Urea		0.50	active
С	Sodium Chloride		1.50	thickener



APPEARANCE		visual method	transparent, viscous gel
рН			4.8 - 5.5
VISCO	SITY [cP]	Brookfield LV, spindle 34, speed 3.0 RPM, T: $25^{\circ}$ C	2000 - 7000
STABIL	.ITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Combine ingredients from phase A. Mix until uniform.
- **2.** Add ingredients from phase B while mixing. Mix until uniform.
- 3. Add Sodium Chloride while mixing. Mix until uniform.

## **CLEANSING GEL [KD-121]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	Sodium Laureth Sulfate, Cocamide MEA	EXOcare ML70	5.00	surfactant
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Lactic Acid		0.25	pH adjuster
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	2.00	surfactant
В	Parfum		0.25	fragrance
	Cocamidopropyl Betaine	ROKAmina K30	8.00	surfactant
С	Sodium Chloride		0.50	thickener



APPEARANCE		visual method	viscous gel
	рН		4.6 - 5.3
	VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.0 RPM, T: 25°C	3000 - 10000
	STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Combine ingredients from phase A. Mix until uniform.
- 2. Add slowly Parfum and ROKAmina K30 while mixing mix until uniform.
- Add slowly Sodium Chloride while mixing. Mix until uniform.

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## **SHOWER BAR [IT-204]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	PEG-150	POLIkol 6000	12.00	thickener
Α	Cera Alba		3.00	thickener
А	Cetearyl Alcohol	EXOalc 1618	20.50	thickener
Α	Hydrogenated castor oil		17.00	thickener
Α	Stearic Acid		2.00	rheology modifier
В	MIPA Laureth Sulfate, Propylene Glycol	SULFOROKAnol L390/1	31.80	surfactant
В	Cocamidopropyl Betaine	ROKAmina K30	10.00	surfactant
В	Glycerin		3.00	solvent
С	Citric acid		0.50	pH adjuster
D	Parfum		0.20	fragrance



APPEARANCE	visual method	white emulsion
рН		
VISCOSITY [cP]		
STABILITY		

### **Procedure:**

- 1. Add cera alba, hydrogenated castor oil, EXOalc 1618 and stearic acid into main vessel and heat up to 80°C and then mix.
- 2. Add POLIkol 6000 and citric acid then mix until homogeneous solution is obtained.
- 3. Cool down solution to 70°C and add phase B ingredients and mix well.
- 4. Cool down solution to 65°C and add phase D and mix until homogeneous solution is obtained.

## **UREA SHOWER GEL [KD-123]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	Sodium Laureth Sulfate, Cocamide MEA	EXOcare ML70	5.00	surfactant
	Sodium Laureth Sulfate	SULFOROKAnol L270/1	8.00	surfactant
	Glycerin		2.00	solvent
	Aqua, Sodium Benzoate, Potassium Sorbate		0.70	preservative
	Lactic Acid		1.00	pH adjuster
	Sodium Lactate	Sodium L-Lactate 50%	1.40	pH adjuster
	Arginine		0.50	active
	Urea		4.00	humectant
В	Parfum		0.50	fragrance
С	Cocamidopropyl Betaine	ROKAmina K30	6.00	surfactant
D	Sodium Chloride		1.50	thickener



APPEARANCE	visual method	gel
рН		4.7 - 5.7
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 3.0 RPM, T: 25°C	2500 - 10000
STABILITY	1 month at 5°C, 20°C, -5/40°C	confirmed

#### **Procedure:**

- **1.** In main vessel combine ingredients from phase A mix until uniform (cloudy solution).
- 2. Prepare the remaining ingredients in separate beakers.
- 3. Add Parfum mix until uniform.

- 4. Add slowly ROKAmina K30 while mixing mix until uniform.
- Add slowly Sodium Chloride while mixing mix until uniform.



### SHOWER GEL - MEN COMFORT [KD-126]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		to 100.00	solvent
	Sodium Laureth Sulfate, Cocamide MEA	EXOcare ML70	19.00	surfactant
В	Acrylates Copolymer		6.00	rheology modifier
	Aqua		6.00	solvent
С	Sodium Hydroxide		0.20	pH adjuster
	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.80	preservative
D	Sodium Chloride		0.50	thickener
E	Petrolatum		3.00	emollient
F	Parfum		0.50	fragrance
G	CI 42090		0.005	colorant



APPEARANCE	visual method	blue, viscous gel
рН		6.0 - 7.5
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- Combine ingredients from phase A and B in separate vessel – mix until uniform.
- 2. Add slowly phase B to phase A during mixing mix until uniform. In separate vessels prepare other ingredients.
- 3. Add preservative and pH adjuster during mixing mix until uniform.
- Add Sodium Chloride while mixing mix until uniform.
- 5. Add phase E,F,G while mixing mix until uniform.

### **BODY WASH WITH MENTHOL COOL [KD-210]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	Ammonium Lauryl Sulfate	ROSULfan A	22.00	surfactant
	Coco-Glucoside		4.00	surfactant
В	Aqua, Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Lactic Acid		0.20	pH adjuster
	Aqua, Coffea Arabica Seed Extract, Alcohol		0.10	active
С	Alcohol		0.50	solvent
	Menthol		0.05	refreshing
D	Cocamidopropyl Betaine	Rokamina K40HC	7.00	surfactant
E	Sodium Chloride		0.50	thickener



APPEARANCE	visual method	gel
рН		4.7 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 3.0 RPM, T: 25°C	2500 - 8000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- In a main vessel combine ingredients from phase A

   mix until uniform. In separate vessel combine ingredients from phase C mix until uniform.
- 2. Prepare the remaining ingredients in separate beakers.
- **3.** Add ingredients from phase B while mixing mix until uniform.
- 4. Add phase C ingredients while mixing mix until uniform.
- 5. Add Rokamina K40HC while mixing mix until
- 6. Add slowly Sodium Chloride while mixing mix until uniform.



### MEN COOL BODY WASH WITH MENTHOL [KD-210]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Aqua		to 100.00	solvent
	Ammonium Lauryl Sulfate	ROSULfan A70	8.00	surfactant
	Coco-Glucoside		4.00	surfactant
В	Aqua, Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Lactic Acid		0.25	pH adjuster
	CI 42090		0.10	colourant
С	Trideceth-9, PEG-40 Hydrogenated Castor Oil, Aqua	EXOcare HTW	0.20	solvent
	Menthol		0.05	refreshing
	Parfum		0.30	fragrance
D	Cocamidopropyl Betaine	Rokamina K30	7.00	surfactant
E	Sodium Chloride		0.60	thickener



APPEARANCE	visual method	gel
рН		4.7 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 3.0 RPM, T: 25°C	3000 - 7000

#### **Procedure:**

- In main vessel combine ingredients from phase A

   mix until uniform. In separate vessel combine ingredients from phase C mix until uniform.
- 2. Prepare the remaining ingredients in separate beakers.
- **3.** Add ingredients from phase B while mixing mix until uniform.
- 4. Add phase C ingredients while mixing mix until uniform.
- 5. Add Rokamina K30 while mixing mix until uniform.
- Add slowly Sodium Chloride while mixing mix until uniform.

## BODY WASH JELLY IN THE FORM OF CRUSHED ICE [RD-08]

DSodium Coco SulfateROSULfan C/PH15.000surfactantBGlycerin15.000activeBCarrageenan2.000thickenerCParfum0.800fragrance	PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
B Carrageenan 2.000 thickener	D	Sodium Coco Sulfate	ROSULfan C/PH	15.000	surfactant
	В	Glycerin		15.000	active
C Parfum 0.800 fragrance	В	Carrageenan		2.000	thickener
	С	Parfum		0.800	fragrance
A CI 42045 0.001 colourant	Α	CI 42045		0.001	colourant
A Sodium Benzoate 0.300 preservative	Α	Sodium Benzoate		0.300	preservative
E Citric Acid 0.050 pH adjuster	E	Citric Acid		0.050	pH adjuster
A Aqua 66.848 solvent	Α	Aqua		66.848	solvent



APPEARANCE	visual method	turquoise crushed jelly
рН		4.9 - 5.3
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- **1.** Add ingredients from phase A to water. Mix until homogenous solution is obtained.
- **2.** Combine the ingredients from phase B, and mix untill swollen.
- **3.** Add phase B during mixing to phase A. Mix until homogenous solution is obtained.
- 4. Add ingredients from phase C to the main mixer and mix.
- 5. Add ingredient from phase D to the main mixer and mix.
- 6. Adjust pH by Citric Acid to 4.6-5.1.

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## 3 IN 1 SHOWER GEL [RD-03]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Coco-Betaine	ROKAmina K30B	9.00	surfactant
Α	Magnesium Laureth Sulfate	EXOsoft MGB	7.00	surfactant
А	PEG-6 Caprylic/Capric Glycerides	ROKAcet CC6	2.00	surfactant
В	PEG-120 Methyl Glucose Dioleate		1.10	thickening agent
В	Allantoin		0.60	active
В	Betaine		0.50	active
В	Polysorbate 20	ROKwinol 20	0.50	solubilizer
С	Parfum		0.30	fragrance
D	Sodium Benzoate		0.40	preservative
E	Lactic Acid		0.40	pH modifier
E	CI 19140		0.01	dye
E	CI 42090		0.01	dye
А	Aqua		78.20	solvent



APPEARANCE	visual method	clear green gel
рН		4.0 - 5.0
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	1000 - 3000
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

## Procedure:

- 1. Add ingredients from phase A to warm water (40-45°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- 3. Add phase B-E during mixing. Mix until homogenous solution is obtained.
- 4. Adjust pH by Lactic Acid to 4.5-4.8.
- 5. Adjust Sodium Chloride to adjust the viscosity. NOTE Add salt (not in one go) after addition of each portion mix well.





## **BODY SCRUB [KD-92]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Aqua		up to 100	solvent
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.90	viscosity modifier
	Glycerin		1.00	solvent
	Betaine		1.00	active
В	Sodium Laureth Sulfate	SULFOROKAnol L227/1	20.00	surfactant
С	Parfum		0.25	fragrance
	Polysorbate 20	ROKwinol 20	0.25	surfactant
D	CI 17200		0.0001	colorant
	Cellulose Acetate		1.00	abrasive
	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.80	preservative
E	Cocamidopropyl Betaine	ROKAmina K30	4.00	surfactant
F	Sodium Hydroxide (30% solution)		0.40	pH modifier



APPEARANCE	visual method	viscous gel
рН		5.0 - 6.0
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 20°C	15000 - 20000
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### Procedure:

- 1. In a main vessel combine ingredients from the phase A. Add Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Glycerin, Betaine to Aqua mix until homogenous solution is obtained. Homogenise for 2-3 minutes.
- 2. Add SULFOROKAnol L227/1 mix until uniform.
- 3. Prepare phase C, D and E.

- 4. Add phase D and E mix until uniform.
- 5. Add ROKAmina K30 mix until uniform.
- 6. Add Sodium Hydroxide (30%) if necessary. Mix until uniform.

## **RASPBERRY JELLY BODY SCRUB [RD-16]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Magnesium Laureth Sulfate	EXOsoft MG	26.600	surfactant
А	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	0.500	surfactant
Α	Cocamidopropyl Betaine	ROKAmina K30	15.000	surfactant
Α	Glycerin		1.000	active
Α	Panthenol		0.500	active
В	PEG-120 Methyl Glucose Dioleate		10.000	thickener
В	Parfum		1.000	fragrance
А	CI 16255		0.001	pigment
	Cellulose		0.100	abrasive
А	Sodium Benzoate		0.400	preservative
	Citric Acid		0.100	pH adjuster
Α	Aqua		44.799	solvent



APPEARANCE	visual method	red jelly with peeling
рН		4.7 - 5.2
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### Procedure:

- **1.** Add ingredients from phase A to water. Mix until homogenous solution is obtained.
- 2. Dissolve phase B separately (40-45°C).
- **3.** Add phase B during mixing. Mix until homogenous solution is obtained.
- 4. Adjust pH by Lactic Acid to 4.7-5.2.
- 5. Finally, add the abrasive.



### **SHOWER GEL FOR MEN CARE [KD-106]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Sodium Laureth Sulfate,	SULFOROKAnol L227/1	45.00	surfactant
В	Acrylates Copolymer		6.00	rheology modifier
	Aqua		6.00	solvent
С	Cocamide DEA	ROKAmid KAD	1.50	surfactant
	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.60	preservative
	CI 17200		0.00008	colorant
	CI 42090		0.0015	colorant
	Parfum		0.5	fragrance
D	Sodium Chloride		0.90	thickener
E	Petrolatum		4.00	emollient



APPEARANCE	visual method	blue, visous gel
рН		6.0 - 7.5
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- **1.** Combine ingerdients from phase A and B in separate vessels mix until uniform.
- 2. Add slowly phase B ingredients to phase A while mixing mix until uniform. In separate vessels prepare others ingredients.
- **3.** Add phase C ingredients while mixing mix until uniform.
- 4. Add Sodium Chloride while mixing mix until uniform.
- 5. Add Petrolatum while mixing mix until uniform.

### **COMFORT SHOWER GEL FOR MEN [KD-126]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Sodium Laureth Sulfate, Cocamide MEA	EXOcare ML70	19.00	surfactant
	Aqua		up to 100	solvent
В	Acrylates Copolymer		6.00	rheology modifier
	Aqua		6.00	solvent
С	Sodium Hydroxide		0.20	pH adjuster
D	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.80	preservative
E	CI 42090		q.s.	colorant
F	Sodium Chloride		0.5	thickener
G	Petrolatum		3.00	emollient
Н	Parfum		0.50	fragrance



APPEARANCE	visual method	blue, visous gel
рН		6.0 - 7.5
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- **1.** Combine ingerdients from phase A and B in separate vessels mix until uniform.
- 2. Add slowly phase B ingredients to phase A while mixing mix until uniform. In separate vessels prepare others ingredients.
- 3. Add phase C and D ingredients while mixing mix until uniform.
- 4. Add Sodium Chloride while mixing mix until uniform.
- Add Petrolatum and Parfum while mixing mix until uniform.



#### **ECO SHOWER GEL FOR MEN [KD-207]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Benzyl Alcohol, Benzoic Acid, Dehydroacetic Acid, Tocopherol		0.70	preservative
	Betaine		0.50	active
В	Ammonium Lauryl Sulfate	ROSULfan A	25.00	surfactant
С	Cocamidopropyl Betaine	ROKAmina K30	5.00	surfactant
D	Parfum		q.s.	fragrance
	Menthol		0.10	refreshing
Е	Sodium Chloride		1.80	thickener



APPEARANCE	visual method	transparent gel
рН		4.5 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6.0 RPM, T: 25°C	2000 - 6000

#### **Procedure:**

- **1.** In a main vessel combine ingredients from phase A. Mix until uniform.
- 2. Add ROSULfan A while mixing. Mix until uniform.
- 3. Combine ingredients from phase D mix until uniform
- 4. Add slowly ROKAmina K30 and Parfum/ Menthol while mixing. Mix until uniform.
- 5. Add slowly Sodium Chloride. Mix until uniform.

NOTE: Add Sodium Chloride in small portions. Control the viscosity after each portion.

## NATURAL SHOWER GEL FOR MEN WITH PIGMENT [KD-213]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Aqua		up to 100	solvent
	Xanthan Gum		0.90	viscosity modifier
	Glycerin		2.50	moisturising agent
	Sodium Benzoate, Potassium Sorbate		0.60	preservative
В	Ammonium Lauryl Sulfate	ROSULfan A	24.00	surfactant
	CI 77000, CI 77491, Silica		0.03	colorant
	Cocamidopropyl Betaine	Rokamina K30	3.40	surfactant
	Parfum		0.30	fragrance
	Citric acid		0.15	pH modifier



APPEARANCE	visual method	pearling gel
рН		4.8 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6.0 RPM, T: 25°C	8000 - 15000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- **1.** In a main vessel combine ingredients from phase A by adding Xanthan Gum to Glycerin and mixing until homogeneous solution is obtained.
- 2. Add warm water (50-55°C) from phase A to the main vessel and homogenise for 1-2 minutes.
- **3.** At the and of preparation, mix the solutions, add preservative and homogenise for 2-3 minutes.
- **4.** Combine ingredients from the phase B and mix until uniform. Control the pH range if necessary, add Citric Acid.
- 5. Add phase B to phase A and mix well. Cool the batch down to 30°C while mixing.



#### **GREEN FACE AND BODY SOAP [KD-350]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Sodium Chloride		1.50	thickener
	Lactic Acid		0.30	pH adjuster
В	Potassium Oleate	EXOsoft PO30	20.00	surfactant
С	Potassium Cocoate	EXOsoft PC35	8.00	surfactant
D	Benzyl Alcohol, Ethylhexylglycerin, Tocopherol		0.60	preservative
	Parfum		0.25	fragrance
Е	Coco Betaine	ROKAmina K30B	5.00	surfactant



APPEARANCE	visual method	gel
рН		9.5 - 10.0
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 3.0 RPM, T: 25°C	2000 - 8000

#### **Procedure:**

- 1. In a main vessel combine ingredients from phase A mix until uniform.
- 2. Prepare the remaining ingredients in separate beakers.
- 3. Add EXOsoft PO30 (phase B) while mixing mix until uniform
- 4. Add EXOsoft PC35 (phase C) while mixing mix until uniform
- 5. Add preservative and fragrance while mixing mix until uniform.
- 6. Add slowly ROKAmina K30B while mixing mix until uniform.

## MEN COOL BODY WASH WITH MENTHOL [KD-210]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Ammonium Lauryl Sulfate	ROSULfan A	22.00	surfactant
	Coco-Glucoside		4.00	surfactant
В	Aqua, Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Lactic Acid		0.20	pH adjuster
	Aqua, Coffea Arabica Seed Extract, Alcohol		0.10	active
С	Alcohol		0.50	solvent
	Menthol		0.05	refreshing
D	Cocamidopropyl Betaine	Rokamina K40HC	7.00	surfactant
Е	Sodium Chloride		0.50	thickener



APPEARANCE	visual method	gel
рН		4.7 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 3.0 RPM, T: 25°C	2500 - 8000

### **Procedure:**

- In a main vessel combine ingredients from phase A – mix until uniform. In a separate vessel combine ingredients from phase C – mix until uniform.
- 2. Prepare the remaining ingredients in separate beakers.
- 3. Add ingredients from phase B while mixing mix until uniform
- 4. Add phase C ingredients while mixing mix until uniform.
- 5. Add Rokamina K40HC MB while mixing mix until
- 6. Add slowly Sodium Chloride while mixing mix until uniform.

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## FOAMING BODY GEL [KD-357]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.90	viscosity modifier
	Glycerin		1.00	solvent
В	Sodium Laureth Sulfate	SULFOROKAnol L227/1	20.00	surfactant
С	Parfum		0.25	fragrance
	Polysorbate 20	ROKwinol 20	0.25	surfactant
D	CI 42090		0.0001	colourant
	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.80	preservative
Е	Cocamidopropyl Betaine	ROKAmina K30	4.00	surfactant
F	Sodium Hydroxide (30% solution)		0.40	pH modifier



APPEARANCE	visual method	viscous gel
рН		5.0 - 6.0
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 20°C	15000 - 20000

### **Procedure:**

- 1. In a main vessel combine ingredients from the phase A. Add Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Glycerin, to Aqua – mix until homogenous solution is obtained. Homogenise for 2-3 minutes.
- 2. Add SULFOROKAnol L227/1 mix until uniform.
- 3. Prepare phase C, D and E..
- 4. Add phase C and D mix until uniform.
- 5. Add ROKAmina K30 mix until uniform.





## NOURISHING BODY MOUSSE [RD-24]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Sodium Cocoyl Isethionate	:	17.00	surfactant
А	Decyl Glucoside		4.00	surfactant
А	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	4.00	surfactant
В	PPG-15 Stearyl Ether	ROKAnol SP15L	1.00	surfactant
В	Glycerin		12.00	active
В	Sorbitol		3.00	active
С	Parfum		0.30	fragrance
С	CI 42090		0.001	dye
С	Sodium Lactate		0.50	active
D	Sodium Benzoate		0.50	preservative
D	Potassium Sorbate		0.30	preservative
E	Lactic Acid		0.30	pH adjuster
Α	Aqua		52.60	solvent



APPEARANCE	visual method	light blue paste
рН		5.0 - 5.5
STABILITY	1 month in 5°C, 20°C, 40°C	2500 - 8000

#### Procedure:

- 1. Add ingredients from phase A to warm water (40-45°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- **3.** Add phase B during mixing. Mix until homogenous solution is obtained.
- **4.** Add phase C-E ingredients while mixing mix until uniform.
- 5. Adjust pH by Lactic Acid to 5,0-5,5.

### **RICH CARING BODY MOUSSE [RD-22]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Sodium Cocoyl Isethionate		11.00	surfactant
А	Magnesium Laureth Sulfate	EXOsoft MGB	1.20	surfactant
A	Coco Betaine	ROKamina K30B	1.50	surfactant
В	Glycerin		30.00	active
В	Sorbitol		15.00	active
В	Sodium Lactate		1.00	active
С	Parfum		0.40	fragrance
D	Sodium Benzoate		0.50	preservative
D	Potassium Sorbate		0.30	preservative
Е	Lactic Acid		0.30	pH adjuster
А	Aqua		38.80	solvent

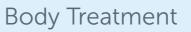


APPEARANCE	visual method	white paste
рН		5.0 - 5.5
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

### **Procedure:**

- 1. Add ingredients from phase A to warm water (40-45°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- **3.** Add phase B during mixing. Mix until homogenous solution is obtained.
- 4. Add phase C-E ingredients while mixing mix until uniform.
- 5. Adjust pH by Lactic Acid to 5,0-5,5.





## SHOWER OILS & BODY WASH EMULSION

**Shower oils** and body wash emulsions are suitable for dry and very dry skin. They gently cleanse and at the same time renew the lipid layer of the skin.

Beautiful fragrance, pleasant consistency, cleansing and moisturizing properties – these are the features of an ideal shower product. Usually consumers choose gels or lotions, although shower oils have recently become very popular on the market.

Shower oils turn into foam which is pleasant to the skin when exposed to water.

Shower oils and body wash emulsions are recommended for sensitive skin. They improve elasticity and strengthens the lipid layer of the epidermis. The shower oil gently oils and nourishes the skin.



They are oftently recommended for washing sensitive, dry skin, but in winter shower oils will be useful for any skin. They grease it well, rebuild protective film strained by winter conditions, prevent moisture loss, smooth, soften, nourish and strengthen. They are very delicate, so using them brings a real pleasure.

After bathing, the skin is lightly dry by a towel with no need to lubricate it with a moisturizer, because it is slightly oily.





## **SHOWER AND BATH OIL [KD-115]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	MIPA Laureth Sulfate (and) Propylene Glycol	SULFOROKAnol L390/1M	15.00	surfactant
	Glycine Soja Oil		27.00	emollient
	Helianthus Annuus Seed Oil		26.00	emollient
	Tocopheryl Acetate		1.00	active
В	Laureth-2		30.00	surfactant
	Parfum		1.00	fragrance



APPEARANCE	visual method	slightly yellowish viscous liquid
VISCOSITY [cP]	Brookfield LV, spindle 18, speed 10 RPM, T: 25°C	70-120
STABILITY	1 month at 5°C, RT, 40°C	confirmed

## **Procedure:**

- **1.** In a main vessel combine ingredients from phase A and mix until uniform.
- **2.** Combine ingredients from phase B in a separate vessel and mix until uniform.
- 3. Add ingredients from phase B to phase A while mixing. Mix until uniform.

## SHOWER OIL [KD-304]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Helianthus Annuus Seed Oil		54.50	emollient
	Tocopheryl Acetate		1.00	active
С	TIPA Laureth Sulfate, Propylene Glycol	SULFOROKAnol L385/1T	20.00	surfactant
С	Laureth-2	ROKAnol LK2	24.00	surfactant
	Parfum		0.50	fragrance
	i dilulli		0.30	Tragrance



APPEARANCE	visual method	slightly yellowish viscous liquid
VISCOSITY [cP]		
STABILITY		

#### Procedure:

- **1.** In a main vessel combine ingredients from phase A. Mix until uniform.
- **2.** Combine ingredients from phase B in a separate vessel and mix until uniform.
- 3. Add ingredients from phase B to phase A while mixing. Mix until uniform.

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## **WASHING POWDER [RD-15]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
	Sodium Lauryl Sulfate	ROSULfan LP	20.00	surfactant
	Allantoin	-	1.0	activ
	Sorbitol	-	78.5	moisturizing
	Parfum	-	0.50	fragrance



APPEARANCE visual method

slightly yellowish viscous liquid

#### **Procedure:**

1. Mix all ingredients.

## SHOWER AND BATH OIL [KD-115]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	MIPA Laureth Sulfate (and) Propylene Glycol	SULFOROKAnol L390/1M	1 15.00	surfactant
	Glycine Soja Oil		27.00	emollient
	Helianthus Annuus Seed Oil		26.00	emollient
	Tocopheryl Acetate		1.00	active
В	Laureth-2		30.00	surfactant
	Parfum		1.00	fragrance



APPEARANCE	visual method	slightly yellowish viscous liquid
VISCOSITY [cP]	Brookfield LV, spindle 18, speed 10 RPM, T: 25°C	70-120
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. In a main vessel combine ingredients from phase A and mix until uniform.
- 2. Combine ingredients from phase B in a separate vessel and mix until uniform.
- 3. Add ingredients from phase B to phase A while mixing. Mix until uniform.

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## MOISTURIZING BODY MOUSSE [RD-13]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Sodium Cocoyl Isethionate	2	10.00	surfactant
А	Decyl Glucoside		0.60	surfactant
A	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	3.00	surfactant
A	PEG-6 Caprylic/Capric Glycerides	ROKAcet CC6	1.00	surfactant
В	Glycerin		38.00	active
В	Sorbitol		16.00	active
В	Poloxamer 184	EXOmer L64	0.50	surfactant
С	Parfum		0.30	fragrance
С	Panthenol		0.20	active
С	CI 15510		0.003	dye
D	Sodium Benzoate		0.50	preservative
D	Potassium Sorbate		0.30	preservative
Е	Lactic Acid		0.30	pH adjuster
А	Aqua		28.80	solvent



APPEARANCE	visual method	orange paste
рН		5.0 - 5.5
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- 1. Add ingredients from phase A to warm water (40-45°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- 3. Add phase B during mixing. Mix until homogenous solution is obtained.
- 4. Add phase C-E ingredients while mixing- mix until uniform.
- 5. Adjust pH by Lactic Acid to 5.0-5.5.

## NOURISHING BATH & SHOWER OIL [RD-14]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Helianthus Annuus Seed Oil		24.50	emollient
Α	Prunus Amygdalus Dulcis (Sweet Almond) Oil		10.0	emollient
А	Ricinus Communis (Castor) Seed Oil		10.0	emollient
	Tocopheryl Acetate		1.00	active
	TIPA Laureth Sulfate, Propylene Glycol	SULFOROKAnol L385/1T	20.00	surfactant
С	Laureth-2	ROKAnol LK2	24.00	surfactant
	Parfum		0.50	fragrance



**APPEARANCE** visual method

slightly yellowish viscous liquid

#### Procedure:

- 1. In a main vessel combine ingredients from phase A. Mix until uniform.
- 2. Combine ingredients from phase B in a separate vessel and mix until uniform.
- **3.** Add ingredients from phase B to phase A while mixing. Mix until uniform.

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## **REFRESHING BODY MOUSSE [RD-17]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Sodium Cocoyl Isethionate	•	21.00	surfactant
А	Decyl Glucoside		1.20	surfactant
Α	PEG-4 Rapeseedamide	ROKAmid MRZ4	3.00	surfactant
А	Coco-Betaine	ROKAmina K30B	1.00	surfactant
В	Glycerin		11.00	active
В	Sorbitol		6.00	active
В	Betaine		0.40	active
С	Parfum		0.30	fragrance
С	CI 15510		0.001	dye
С	CI 45100		0.001	dye
С	Mentha Piperita Leaf Extract		0.40	active
D	Sodium Benzoate		0.50	preservative
D	Potassium Sorbate		0.30	preservative
E	Lactic Acid		0.30	pH adjuster
А	Aqua		54.60	solvent



APPEARANCE	visual method	red paste
рН		5.0 - 5.5
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- 1. Add ingredients from phase A to warm water (40-45°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- **3**. Add phase B during mixing. Mix until homogenous solution is obtained.
- 4. Add phase C-E ingredients while mixing mix until uniform
- 5. Adjust pH by Lactic Acid to 5.0-5.5.

## **REFRESHING SHOWER GEL WITH ZINC [RD-18]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Zinc Coceth Sulfate	EXOsoft ZN	8.00	surfactant
Α	PEG-4 Rapeseedamide	ROKAmid MRZ4	2.00	surfactant
Α	Cocamidopropyl Betaine	ROKamina K30	8.00	surfactant
А	Coco Glucoside		9.00	surfactant
В	Glycerin		0.50	active
С	Parfum		0.30	fragrance
D	Sodium Benzoate		0.40	preservative
E	Lactic Acid		0.40	pH modifier
E	CI 19140		0.01	dye
E	CI 17200		0.01	dye
F	Sodium Chloride		1.20	viscosity modifier
Α	Aqua		70.18	solvent



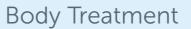
APPEARANCE	visual method	clear orange gel
рН		4.0 - 5.0
VISCOSITY	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	1000 - 3000
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- Add ingredients from phase A to warm water (40-45°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- 3. Add phase B-E during mixing. Mix until homogenous solution is obtained.
- 4. Adjust pH by Lactic Acid to 4.6-4.8.
- 5. Adjust Sodium Chloride to adjust the viscosity. NOTE Add salt (not in one go) after addition of each portion mix well.

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# INTIMATE HYGIENE

The intimate woman place is a unique ecosystem which is inhabited by over 100 species of microorganisms. Among them are the bacteria, whose metabolic product like lactic acid protects the vaginal environment from pathogens. Because of that the pH of intimate area is below 4.5.

A number of factors, can disrupt the balance of the vaginal microbiota and compromise women's health. Therefore, the proper care for the most delicate part of the body should be taken very seriously.

Formulations presented below combine an approriate and well-thought components of the final formula which restores the natural pH balance.



Intimate hygiene products provide a gentle care for places requiring special protecion. The main function which suppose to be fulfiled by **Intimate Hygiene Products are:** 

- · provide a feeling of well-being,
- provide protection from infection,
- be suitable for daily use,
- prevent skin dryness,
- destroy the lipid mantle of the skin,
- · neutral and natural composition,
- be without potential ingredients that cause allergies and irritations,
- provide care and regeneration.





## **GEL FOR INTIMATE HYGIENE [KD-01]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		68.00	solvent
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Betaine		1.00	active
	Glycerin		2.00	moisturising agent
	Lactic Acid		0.50	pH adjuster
В	Sodium Laureth Sulfate	SULFOROKAnol L227/1	18.00	surfactant
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.00	surfactant
С	Parfum		0.25	fragrance
D	Coco Betaine	ROKAmina K30B	8.75	surfactant



APPEARANCE	visual method	light-yellow gel
рН		4.0- 4.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6.0 RPM, T: 25°C	1000 - 7000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

### **Procedure:**

- **1.** In a main vessel combine ingredients from phase A. Mix until uniform.
- 2. Add ingredients from phase B. Mix until uniform.
- 3. Add parfum while mixing. Mix until uniform.
- 4. Add slowly Coco Betaine while mixing. Mix until uniform.
- 5. If nessesery, adjust pH by Lactic Acid to 4.0 4.5.

## **GEL FOR INTIMATE HYGIENE [KD-02]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Betaine		1.00	active
	Glycerin		1.00	moisturising agent
	Lactic Acid		q.s	pH adjuster
В	Sodium Laureth Sulfate	SULFOROKAnol L227/1	12.00	surfactant
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	0.50	surfactant
	Magnesium Laureth Sulfate	EXOsoft MG / EXOsoft MC	GB 6.00	surfactant
С	Parfum		0.25	fragrance
D	Coco Betaine	ROKAmina K30B	9.00	surfactant



APPEARANCE	APPEARANCE visual method		
рН		4.0 - 4.5	
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6.0 RPM, T: 25°C	1000 - 7000	
STABILITY	1 month at 5°C, RT, 40°C	confirmed	

#### **Procedure:**

- 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 Parfum while mixing. Mix until uniform.
- 4. Add slowly Coco Betaine while mixing. Mix until uniform.
- 5. If necessary, adjust pH by Lactic Acid to  $4.0\,$  4.5.



## **GEL FOR INTIMATE HYGIENE [KD-03]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		70.65	solvent
	Sodium Laureth Sulfate	SULFOROKAnol L227/1	18.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	3.00	surfactant
	Betaine		0.50	active
	Glycerin		1.00	moisturising agent
	Coco-Glucoside, Glyceryl Oleate		0.50	surfactant
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Lactic Acid		0.60	pH adjuster
В	Parfum		0.25	fragrance
С	Coco Betaine	ROKAmina K30B	5.00	surfactant



APPEARANCE	visual method	transparent gel
рН	рН	
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6 RPM, T: 25°C	2000 - 7000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- 1. Combine ingredients from phase A. Add ingredients from phase A to warm water (40-45°C). Mix until homogenous solution is obtained. Cool the batch down to at least 30°C.
- 2. Add parfum while mixing.

- 3. Add Coco Betaine while mixing. Mix until uniform.
- 4. If necessary, adjust pH by Lactic Acid to 4.0 4.5.

## **GEL FOR INTIMATE HYGIENE [KD-04]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	MEA Lauryl Sulfate	ROSULfan M	18.00	surfactant
	Magnesium Laureth Sulfate	EXOsoft MG / EXOsoft MC	GB 4.00	surfactant
	Glycerin		1.00	moisturising agent
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.00	surfactant
	Decyl Glucoside		0.50	surfactant
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
В	Coco Betaine	ROKAmina K30B	6.00	surfactant
	Parfum		0.25	fragrance
С	Lactic Acid		q.s	pH adjuster



APPEARANCE	visual method	bright-yellow gel
рН		4.0 - 4.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6 RPM, T: 25°C	2000 - 7000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- 1. Combine ingredients from phase A. Add ingredients from phase A to water (25-30°C). Mix until homogenous solution is obtained.
- 2. Add slowly Coco Betaine and parfum while mixing. Mix until uniform.
- 3. If necessary, adjust pH by Lactic Acid to 4.0 4.5.



## **GEL FOR INTIMATE HYGIENE [KD-05]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	Magnesium Laureth Sulfate	EXOsoft MGB	25.00	surfactant
	Betaine		2.00	active
	Glycerin		2.00	moisturising agent
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.00	surfactant
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Coco-Glucoside, Glyceryl Oleate		0.50	surfactant
	Lactic Acid		q.s.	pH adjuster
В	Parfum		0.20	fragrance
	Coco Betaine	ROKAmina K30B	8.00	surfactant



APPEARANCE	visual method	transparent gel
рН		4.0 - 4.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.0 RPM, T: 25°C	1000 - 4000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Combine ingredients from phase A. Add ingredients from phase A to water and heat to 50°C. Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 30°C.

3. Add slowly Coco Betaine and Parfum while mixing. Mix until uniform.

## GEL FOR INTIMATE HYGIENE [KD-06]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	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
В	Magnesium Laureth Sulfate	EXOsoft MGB	24.00	surfactant
	PEG-120 Methyl Glucose Dioleate		0.25	thickener
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	0.50	surfactant
С	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
рН	рН	
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

#### **Procedure:**

- 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.

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## **FOAM FOR INTIMATE HYGIENE [KD-07]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	Glycerin		4.00	moisturising agent
	Magnesium Laureth Sulfate	EXOsoft MG / EXOsoft MC	GB 4.00	surfactant
	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	4.00	surfactant
	Betaine		0.50	active
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Lactic Acid		q.s	pH adjuster
В	Panthenol		0.10	active
	PEG-120 Methyl Glucose Dioleate		0.25	thickener
С	Cocamidopropyl Betaine	ROKAmina K30	2.00	surfactant
	Parfum		0.20	fragrance



APPEARANCE	visual method	bright-yellow liquid
рН		4.0 - 4.5
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- 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 PEG-120 Methyl Glucose Dioleate and Panthenol. Mix until uniform. Cool the batch down to at least 30°C.
- **3.** Add Cocamidopropyl Betaine and Parfum during mixing. Mix until uniform.
- 4. If nessesery, adjust pH by Lactic Acid to 4.0 4.5.

## MILD INTIMATE HYGIENE EMULSION [RD-12]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Sodium Coco Sulfate	ROSUlfan C/PH	20.00	surfactant
А	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	1.00	surfactant
А	Coco Betaine	ROKamina K30B	6.00	surfactant
В	Glycerin		0.60	active
В	Sodium Lactate		0.60	active
В	Panthenol		0.60	active
В	Parfum		0.25	fragrance
С	Sodium Benzoate		0.40	preservative
D	Glycol Distearate, Laureth-4, Cocoamidopropyl Betaine	EXOpearl SF	1.00	surfactant
E	Lactic Acid		0.30	pH adjuster
Α	Aqua		70.15	solvent

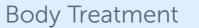


APPEARANCE	visual method	white with pearl effect
рН		4.0 - 4.8
VISCOSITY	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	1000 - 5000
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### Procedure:

- 1. Add ingredients from phase A to warm water (40-45°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- 3. Add phase B-D during mixing. Mix until homogenous solution is obtained.
- 4. Adjust pH by Lactic Acid to 4.0-4.5.





# SKIN CARE **PRODUCTS**

Skin Care Products are a big group of cosmetics which are available in many different categories. Generally each skin care product like balm, moisturiser or lotion should provide to the skin sufficient nourishment as well as protection.

In the beauty market there are plenty of brands and products to choose from. Selection of the suitable product should be connnected with the skin type and it's compatibility.

In terms of oily skin, light weight lotion are recommended. In case of dry, mature skin, moisturiser with a thicker consisitency should be chosen. Night creams will generally be thicker than a day cream.

Skin Care Products are designed for the body to help keep the smooth of skin.



Cosmetic companies are coming up with plenty of creative products to market what is increasing the range of them. Technically, beside of their different consistency and various names, skin care products like treatment balms, nourishing hand creams, intensive moisturisers and body lotions have one common goal: to hydrate, treat and repair the dry skin. Some may have anti-aging effects, others may include skin regenerating ingredients, but in general they work to protect our skin making it more supple and smooth.





## BB CREAM [KD-77]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
С	Polysorbate 60		2.00	emulsifier
	Cetearyl Alcohol, Ceteareth-20	EXOcare TE20 flakes	2.50	emulsifier
	Ceteareth-12	ROKAnol T12	1.00	emulsifier
	Paraffinum Liquidum		5.00	emollient
	Butyl Methoxydibenzoylme	ethane	3.00	UV filter
	Octocrylene		3.00	UV filter
	PPG-15 Stearyl Ether	ROKAnol SP15L	5.00	emollient
Α	Aqua		68.316	solvent
	Glycerin		2.00	solvent
	Magnesium Aluminum Silic	ate	1.00	rheology modifier
В	CI 77492, Phytic Acid, Sodi	um Hydroxide	0.11	colorant
	CI 77499, Phytic Acid, Sodi	um Hydroxide	0.031	colorant
	CI 77891, Phytic Acid, Sodiu	um Hydroxide	1.75	colorant
	CI 77491, Phytic Acid, Sodiu	um Hydroxide	0.043	colorant
D	Acrylates/C10-30 Alkyl Acr	ylate Crosspolymer	0.15	rheology modifier
	Dimethicone		2.00	emollient
	Cyclopentasiloxane		2.00	emollient
E	Phenoxyethanol, Methylpa Ethylparaben, Propylparabe		1.00	preservative
F	Sodium Hydroxide		0.10	pH adjuster



APPEARANCE	visual method	beige emulsion
рН		5.0 - 7.0
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

### **Procedure:**

- 1. In a main vessel combine ingredients from phase A. Homogenize with 2000-3000 RPM, 5 min.
- 2. Add phase B ingredients. Homogenize with 2000-3000 RPM, 5 min.
- 3. In a separate vessell combine ingredients from phase C, D.
- 4. Heat phase A/B and C to 75-80°C.
- 5. Add C into A/B while mixing, keep A/B/C at 75-80°C. Homogenize with 2000-3000 RPM, 120 sec.
- Cool the batch down to 50°C while mixing. Add phase D ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec.
- 7. Cool the batch down to 30°C while mixing.
- 8. Add phase E and F ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec.



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## EYE CREAM [KD-79]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Polysorbate 60		2.00	emulsifier
	Cetearyl Alcohol, Ceteareth-20	ROKAnol TE20 Flakes	3.00	emulsifier
	Paraffinum Liquidum		6.00	emollient
	Palmitic Acid		1.00	emollient
	Cocos Nucifera (Coconut) ( Hydrogenated Soy Polyglyc		3.00	emollient
	PPG-15 Stearyl Ether	ROKAnol SP15L	5.00	emollient
В	Aqua		72.33	solvent
	Allantoin		0.10	active
	Betaine		4.00	active
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.07	rheology modifier
С	Carbomer		0.05	rheology modifier
	Dimethicone		2.00	emollient
D	Sodium Hydroxide		0.05	pH adjuster
E	Phenoxyethanol, Methylpara Ethylparaben, Propylparabe		0.80	preservative
F	Sodium Polyacrylate, Ethylh Stearate, Trideceth-6	exyl	0.60	rheology modifier



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

### **Procedure:**

- 1. In separate vessels combine ingredients from phase A and B. NOTE! Add slowly Acrylates/C10-30 Alkyl Acrylate Crosspolymer while mixing mix until uniform.
- 2. Heat up to 75-80°C phase A and B. Combine ingredients from phase C mix until uniform.
- **3.** Add the phase B to phase A while mixing. Mix until uniform. Homogenize 1500-2000 RPM, 90-120 s.
- 4. Cool the batch down to 60°C while mixing. Add phase C ingredients while mixing. Homogenize 2000-2500 RPM, 90-120 s.
- 5. Add phase D and Eingredients while mixing. Homogenize 2500-3000 RPM, 90-120 s. NOTE! A 30% Sodium Hydroxide solution was used.
- 6. Add phase E and Fingredients while mixing. Homogenize 3000-4000 RPM, 90-120 s. Cool the batch down to 25-30°C while mixing.



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### **BODY MILK [KD-78]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Ceteareth-12	ROKAnol T12	1.00	emulsifier
	Ceteareth-25	ROKAnol T25	1.00	emulsifier
	Cetearyl Alcohol	EXOalc 1618	2.00	thickener
	Paraffinum Liquidum		5.00	emollient
	Helianthus Annuus Seed O	il	0.50	emollient
	PPG-15 Stearyl Ether	ROKAnol SP15L	4.00	emollient
В	Aqua		83.85	solvent
	Betaine		0.50	active
С	Glycerin		1.00	solvent
	Xanthan Gum		0.05	rheology modifier
D	Carbomer		0.25	rheology modifier
E	Sodium Hydroxide		0.05	pH adjuster
F	Phenoxyethanol, Methylpa Ethylparaben, Propylparabe		0.80	preservative



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

#### **Procedure:**

- 1. In separate vessels 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 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, 90 sec.

## **BODY LOTION [KD-82]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Cetearyl Alcohol		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
В	Aqua		78.35	solvent
	PEG-7/PPG-2	ROKAnol GA7LAW	1.00	emollient
	Betaine		2.00	active
	Glycerin		2.00	moisturising agent
С	Carbomer		0.30	rheology modifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	1.00	emollient
D	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		1.00	preservative
E	Sodium Hydroxide		0.05	pH adjuster
	Parfum		0.30	fragrance



APPEARANCE	visual method	white emulsion
рН		5.0 - 7.0
STABILITY	1 month at 5°C, RT, 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. Homogenise 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.

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#### **BODY LOTION [RD-07]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Ceteareth-25	ROKAnol T25 Flakes	2.00	emulsifier
	Cetearyl Alcohol	EXOalc 1618		emulsifier
	PPG-15 Stearyl Ether	ROKAnol SP15L MB	2.00	emollient
А	C12-15 Alkyl Benzoate	EXOsoft AB25	4.00	emollient
А	Glycereth-26	ROKAnol G26	1.00	emollient
Α	Glyceryl Stearate, PEG-100 Stearate		3.00	emulsifier
В	Aqua		to 100.00	solvent
С	Sodium Benzoate, Potassium sorbate		q.s.	preservative
D	Parfum		0.50	fragrance



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

#### **Procedure:**

- 1. In separate vessel combine ingredients from phase A, B, C, D.
- 2. Heat up to 75-80°C phase A and B.
- 3. Add phase A components to phase B/C while mixing. Mix until uniform. Homogenize 1500-2000 RPM, 90-120 s.
- 4. Cool the batch down to 30°C while mixing. Add phase D ingredients while mixing. Homogenize 2000-2500 RPM, 90-120 s.
- 5. Cool the batch down to 20-25°C while mixing.

#### **GLOW BODY LOTION [KD-160]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Allantoin		0.10	active
	Glycerin		4.00	solvent
	Cl 77491, Cl 77891, Mica		0.30	colorant
	Cl 77891, Mica		0.20	colorant
В	Sodium Polyacrylate, Ethylhexyl Stearate, Trideceth-6		0.80	rheology modifier
С	PPG-15 Stearyl Ether	ROKAnol SP15L	3.00	emolient
	Parfum		0.50	fragrance
	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben	,	0.80	preservative
Α	Aqua		90.30	solvent



APPEARANCE	visual method	
рН		5.0 - 7.0
STABILITY		

#### **Procedure:**

- 1. Combine ingredients from phase A. Mix until uniform.
- 2. Add B ingredients while mixing. Mix until uniform. Homogenize with 2000-3000 RPM, 120-180 sec.
- 3. Add phase C ingredients while mixing. Homogenize with 2000-3000 RPM, 120-180 sec.



#### HAND CREAM [KD-83]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	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
В	Aqua		58.00	solvent
	Betaine		2.00	active
	Glycerin		20.00	solvent
С	Phenoxyethanol, Methylparaben, Ethylparaben Propylparaben	,	1.00	preservative
D	Parfum		0.50	fragrance



APPEARANCE	visual method	white emulsion
рН		5.0 - 7.0
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. In a separate vessell 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. Homogenise with 2000-3000 RPM, 120 sec.
- Cool the batch down to 50°C while mixing. Add phase C ingredients while mixing. Homogenise with 2500-3500 RPM, 90 sec.
- 5. Cool the batch down to 25°C. Add phase D ingredients while mixing. Homogenise with 2500-3500 RPM, 30 sec.

#### **ECONOMY HAND CREAM [KD-299]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Cetearyl Alcohol, Ceteareth-20	EXOcare TE20 flakes	3.00	emulsion stabilizer
	Paraffinum Liquidum		7.00	emollient
	Ceteareth-12	ROKAnol T12	1.50	emulsifier
	Tocopheryl Acetate		0.10	active
	PPG-15 Stearyl Ether	ROKAnol SP15L	2.00	emollient
В	Aqua		to 100.00	solvent
	Allantoin		0.10	active
	Glycerin		2.00	solvent
	Aqua, Sodium Benzoate, Potassium Sorbate		0.70	preservative
	Lactic Acid	KWAS L(+)- MLEKOWY 80 E270	% 0.15	pH adjuster
С	Dimethicone		1.00	emollient
	Sodium Polyacrylate, Ethylh Stearate, Trideceth-6	exyl	1.00	rheology modifier
D	Parfum		0.30	fragrance



APPEARANCE	visual method	white emulsion
рН		5.0 - 5.5
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- 1. In separate vessels combine ingredients from phase A and B.
- 2. Heat phase A and B to 75-80°C.
- **3.** Add phase A into phase 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.

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#### **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	е	5.00	emollient
	Stearic Acid		1.00	rheology modifier
	Helianthus Annuus Seed O	il	2.00	emollient
	Butyrospermum Parkii Butt	er	1.00	emollient
В	Aqua		73.10	solvent
	Betaine		5.00	active
С	Glycerin		2.00	solvent
	Xanthan Gum		0.10	rheology modifier
D	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.20	rheology modifier
E	Phenoxyethanol, Methylparaben, Ethylparabe Propylparaben	n,	0.80	preservative
	Sodium Hydroxide		0.05	pH adjuster
F	Parfum		0.25	fragrance



APPEARANCE	visual method	white emulsion
рН		5.0 - 7.0
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. In a separate vessell 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 vessell combine ingredients from phase C. Mix until uniform. Add slowly phase C ingredients to phase B while mixing. Homogenise 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. Homogenise with 2000-3000 RPM, 120 sec.
- Cool the batch down to 50°C while mixing. Add phase E ingredients while mixing. Homogenise with 2500-3500 RPM, 90 sec.
- 7. Cool the batch down to 25°C. Add phase Fingredients while mixing. Homogenise with 2500-3500 RPM, 120 sec.



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#### NIGHT CREAM [KD-89]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Glycerin		4.00	solvent
	Allantoin		0.10	active
В	Ceteareth-12	ROKAnol T12	2.00	emulsifiers
	Ceteareth-25, Cetearyl Alcohol	EXOcare TE25 Flakes	3.50	emulsifiers
	Palmitic Acid		2.00	rheology modifier
	Butyrospermum Parkii Butter		1.00	emollient
	Paraffinum Liquidum		10.00	emollient
	PPG-15 Stearyl Ether	ROKAnol SP15L	4.00	emollient
С	Dimethicone		2.00	emollient
С	Helianthus Annuus Seed Oil		2.00	emollient
D	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.80	preservative
E	Sodium Polyacrylate, Ethylhexyl Stearate, Trideceth-6		0.85	rheology modifier
Α	Aqua		67.75	solvent



APPEARANCE	
рН	5.0 - 7.0
STABILITY	

#### Procedure:

- 1. In a main vessel combine ingredients from phase A – mix until uniform.
- 2. In a separate vessel prepare phase C mix until uniform.
- 3. Add ingredients from phase B E mix until uniform.
- 4. Add slowly Coco Betaine while mixing. Mix until uniform.







# FACE CARE PRODUCTS

**Face Care Products** are basic care cosmetics for every woman. Facial skin is our business card, that is why we should take care of it as best as possible. Today's Face Care Cosmetics are multi-tasking, but they also meet the needs of skin living under strong oxidative stress, which can lead to loss of collagen and elastin. There are many types of Face Care products, so it's worth knowing their purpose and application.

Selecting the best quality ingredients provides gentle, moisturizing, anti-wrinkle properties delivered to the skin.



Face Care products should first and foremost be chosen according to the needs of the skin and age. Currently, the use of multifunctional face care cosmetics which are suitable for day and night use is moving away.

During the day, our skin has different needs than at night, hence the need to use a different day and night care products. The face care products for the day have a protective function against harmful external factors. The consistency of the day cosmetic is much lighter than the night one. Many day cosmetics also have a small UV filter that protects from sunlight. The night cosmetic is designed to regenerate and nourish the face. The skin regenerates quickly at night, which is why the cosmetic applied during the evening care ritual should contain many nutrients.





#### **DEEPLY CLEANSING GEL FOR SKIN FACE [ST-02]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		49.00	solvent
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		1.00	viscosity modifier
В	Aqua		14.00	solvent
	Sodium Lauroyl Glycinate	ROKAtend GL	10.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	20.00	surfactant
	Cocamidopropyl Betaine	ROKAmina K30	3.40	surfactant
С	Parfum		0.40	fragrance
	Propylene Glycol		1.00	solvent
	Benzyl Alcohol, Ethylhexylglycerin, Tocopherol		1.00	preservative
D	Sodium Hydroxide		0.20	pH modifier



APPEARANCE	visual method	clear, viscous gel with suspended air bubbles
рН		5.5 - 6.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	15000 - 20000
STABILITY	1 month st 5°C, RT, 40°C	confirmed

#### **Procedure:**

- Pour the warm deionized water (40-50°C) in to the main vessel and add the Acrylates/C10-30 Alkyl Acrylate Crosspolymer. Start mixing when the polymer is completely wetted. Mix until the homogenous solution is obtained.
- 2. Combine ingredients from phase B in a separate vessel. Heat up to 60°C with gentle agitation. 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. When the batch temperature is around 30°C, add preservative, Propylene Glycol and fragrance. Mix for 20 minutes with slow agitation.
- 5. Readjust the final pH to 5.5 6.5 with addition of Sodium Hydroxide (30%) if necessary.

#### MILD EMULSION FOR SKIN FACE [ST-03]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Paraffinum Liquidum		1.50	emollient
	Butyrospermum Parkii (Shea Butter)		0.50	emollient
	Caprylic/Capric Triglyceride		1.00	emollient
	Glyceryl Stearate, PEG-100 Stearate		3.00	emulsifier
	Cetearyl Alcohol		2.50	co-emulsifier
В	Aqua		25.30	solvent
С	Xanthan Gum		0.40	viscosity modifier
	Glycerin		1.30	moisturising agent
	Aqua		50.20	solvent
D	Citric Acid		0.10	pH modifier
	Sodium Lauroyl Glycinate	ROKAtend GL	5.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	7.70	surfactant
	Parfum		0.50	fragrance
	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		1.00	preservative



APPEARANCE	visual method	white emulsion
рН		6.5 - 7.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6.0 RPM, T: 25°C	5000 - 10000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. In a main vessel heat all ingredients to 75-80°C and do the same with phase B.
- 2. Pour the hot water form phase B into phase A, mix well (avoid cooling) and homogenise for 5 minutes. Then, start cooling the formulation and repeat homogenization at 60°C. Do the same at 40°C.
- 3. At the same time, prepare phase C by mixing Xanthan
- Gum, Glycerin and warm water (50°C). To obtain homogenous solution, homogenize for 1 min.
- Combine ingredients from the phase D and mix until uniform. If necessary, add Citric Acid.
- 5. Add phase D and B to main vessel (phase A) and mix for 5 min, then homogonise for 1 min.



#### **FOAMING FACE WASH [ST-04]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		48.20	solvent
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.50	re-oiling agent
	Glycerin		1.00	moisturising agent
	Sodium Lauroyl Sarcosinate	ROKAtend LS	34.70	surfactant
	Cocamidopropyl Betaine	ROKAmina K30K	9.70	surfactant
	Parfum		0.50	fragrance
	Ehylhexyl Glycerine, Phenoxyethanol		1.00	preservative
	Propylene Glycol		2.50	solvent
	Cocamide DEA	ROKAmid KAD	0.50	surfactant
	Citric acid		0.40	pH modifier



APPEARANCE	visual method	clear, colorless liquid
рН		6.0 - 7.5
STABILITY	1 month st 5°C, RT, 40°C	confirmed

#### Procedure:

- 1. Add ingredients from phase A to the warm water (40-50°C). Mix until uniform.
- 2. Then, cool the mixture down to room temperature before adding a preservative and add the rest of ingredients.
- 3. Control the pH range if necessary, add Citric Acid. Mix well after adjustment.

#### TWO PHASE FOAMING FACE WASH [ST-05]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		38.40	solvent
	Sodium Lauroyl Glycinate	ROKAtend GL	10.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	30.00	surfactant
	Propylene Glycol		3.00	solvent
	Parfum		0.60	fragrance
	Ehylhexyl Glycerine, Phenoxyethanol		1.00	preservative
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.60	re-oiling agent
	Mineral Oil		15.00	emollient
	Citric Acid		0.40	pH modifier



APPEARANCE	visual method	clear colorless liquid (water phase)
рН		6.0 - 7.5 (water phase)
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Add ingredients from phase A to the warm water (40-50°C). Mix until uniform.
- 2. Then, cool the mixture down to room temperature before adding a preservative and add the rest of ingredients.
- 3. Control the pH range if necessary, add Citric Acid. Mix well after adjustment.
- 4. Add Sodium Chloride to adjust the viscosity. NOTE. Add salt (not in one go) after addition of each portion mix well.



#### MILD PEARLING GEL FOR SKIN FACE [ST-06]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		45.90	solvent
	Xanthan Gum		0.65	viscosity modifier
	Glycerin		2.00	moisturising agent
	Sodium Benzoate, Potassium Sorbate		0.60	preservative
В	Aqua		15.70	solvent
	Magnesium Laureth Sulfate	EXOsoft MGB	20.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	10.00	surfactant
	Cocamidopropyl Betaine	ROKAmina K30	3.40	surfactant
С	Citric Acid		0.25	pH modifier
	Sodium Laureth Sulfate, Cocamide DEA, Glycol Distearate	EXOpearl N	1.00	pearling agent
	Parfum		0.50	fragrance



APPEARANCE	visual method	viscous pearling gel
рН		4.8 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 4.0 RPM, T: 25°C	6000 - 9000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 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.

#### MILD GEL TO SKIN FACE WASHING [KD-61]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		50.00	solvent
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.85	rheology modifier
В	Aqua		up to 100	solvent
	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	5.00	surfactant
	Cocamidopropyl Betaine	ROKAmina K30	6.00	surfactant
	Betaine		1.00	active
	Glycerin		1.00	moisturising agent
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	0.50	surfactant
	CI 42090		q.s.	colorant
	Benzophenone-4		0.05	UV filter
С	Phenoxyethanol, Ethylhexylglycerin		1.00	preservative
	Parfum		0.30	fragrance
	Sodium Hydroxide		0.50	pH adjuster



APPEARANCE	visual method	clear, blue viscous gel with suspended air bubbles
рН		5.0 - 6.0
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- Pour the warm deionized water (40-50°C) in to the main vessel and add the Acrylates/C10-30 Alkyl Acrylate Crosspolymer. Start mixing when the polymer is completely wetted. Mix until the homogenous solution is obtained.
- 2. Combine ingredients from phase B in a separate vessel. Heat up to 30°C with gentle agitation. 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. When the batch temperature is 30°C, add preservative, fragrance and Sodium Hydroxide. Mix for 20 minutes with slow agitation.
- 5. Readjust the final pH to 5.0 6.0 with addition of Sodium Hydroxide (30%) if necessary.



#### **GEL FOR WASHING SKIN FACE [KD-62]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.90	rheology modifier
	Aqua		40.00	solvent
В	Aqua		up to 100	solvent
	Sodium Laureth Sulfate	SULFOROKAnol L270/1	7.00	surfactant
	Magnesium Laureth Sulfate	EXOsoft MG / EXOsoft MC	GB 4.00	surfactant
	Betaine		2.00	active
	PEG-75 Lanolin	ROKAnol LN75/50	1.00	surfactant
	Glycerin		1.00	moisturising agent
	CI 17200		q.s.	colorant
	Benzophenone-4		0.05	UV filter
С	Phenoxyethanol, Ethylhexylglycerin		1.00	preservative
	Parfum		0.30	fragrance
	Cocamidopropyl Betaine	ROKAmina K30	3.00	surfactant
D	Sodium Hydroxide		q.s	pH adjuster



APPEARANCE	visual method	pink gel
рН		5.0 - 6.0
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	18000 - 22000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- 1. Pour the deionized water (25-30°C) into the main vessel and add the Acrylates/C10-30 Alkyl Acrylate Crosspolymer. Start mixing when the polymer is completely wetted. Mix until the homogenous solution is obtained. Homogenise for 1-2 minutes.
- 2. Combine ingredients from phase B in a separate vessel. Heat up to 40-45°C with gentle agitation. Mix until homogenous solution is obtained.
- 3. Add slowly phase B to phase A while mixing. Mix until uniform.
- 4. Add Preservative, Cocamidopropyl Betaine and Parfum while mixing. Mix until uniform.

#### **CREAMY FACE SCRUB [KD-91]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	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	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
В	Aqua		73.68	solvent
	Betaine		1.00	active
	Glycerin		4.00	solvent
	Pentylene Glycol		2.00	solvent
	Magnesium Aluminum Silica	ate	0.10	rheology modifier
С	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	emulsion with scrub particles
рН		5.0 - 7.0
STABILITY	1 month at 5°C, RT, 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. Homogenise with 2000-3000 RPM, 5-6 min.
- 2. Add Acrylates/C10-30 Alkyl Acrylate Crosspolymer while mixing. Mix for 10 min 100-150 RPM. Homogenise with 700-1000 RPM, 60-90 sec.
- 3. In a 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. Homogenise with 2000-3000 RPM, 120 sec.
- 6. Cool the batch down to 50°C while mixing. Add phase D ingredients while mixing. Homogenise 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.



#### **ZINC FACE WASH GEL [KD-67]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Zinc Coceth Sulfate	EXOsoft ZN	8.00	surfactant
Α	Sodium Laureth Sulfate	SULFOROKAnol L227/1	4.00	surfactant
Α	Phenoxyethanol, Ethylhexylglycerin		0.80	preservative
Α	Allantoin		0.10	active
Α	Betaine		0.50	active
В	PEG-120 Methyl Glucose Dioleate		1.00	thickener
С	Parfum		0.25	fragrance
С	Polysorbate 20	ROKwinol 20	0.25	surfactant
D	Cl 42090		0.0001	colorant
D	Cl 19140		0.0055	colorant
E	Lactic Acid		0.05	pH adjuster
F	Coco-Betaine	ROKAmina K30B	7.00	surfactant
Α	Aqua		78.00	solvent



APPEARANCE	visual method	slightly gray emulsion
рН		4.5 - 5.2
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	1500 - 5000

#### Procedure:

- 1. In a main vessel combine ingredients from phase A mix until uniform.
- 2. In a separate vessel prepare phase C mix until uniform.
- 3. Add ingredients from phase B E mix until uniform.
- 4. Add slowly Coco Betaine while mixing. Mix until uniform.



#### FACE MASK [KD-120]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	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	е	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
В	Aqua		71.50	solvent
	Pentylene Glycol		2.50	solvent
	Betaine		1.00	active
	Magnesium Aluminum Silicate		1.00	rheology modifier
С	Kaolin	Kaolin		absorbent
	Phenoxyethanol, Methylpa Ethylparaben, Propylparabe		0.50	preservative



APPEARANCE	visual method	slightly gray emulsion
рН		5.0 - 7.0
STABILITY	1 month at 5°C, RT, 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. Homogenise with 2000-3000 RPM, 5-6 min.
- 2. In a separate 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. Homogenise with 2000-3000 RPM, 120 sec.
- Cool the batch down to 50°C while mixing. Add phase C ingredients while mixing. Homogenise with 2500-3500 RPM, 120 sec.
- 6. Cool the batch down to 25°C.

# GEL WITH SCRUB FOR WASHING AND MASSAGING THE FACE AND BODY [RD-20]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
В	MIPA Laureth Sulfate (and) Propylene Glycol	SULFOROKAnol L390/1M	5.000	surfactant
В	Cocamidopropyl Betaine	ROKAmina K30	6.000	surfactant
В	Sodium Lauroyl Sarcosinate	ROKAtend LS	1.000	surfactant
В	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	0.5	surfactant
Α	Glycerin		3.000	active
Α	Sclerotium gum (and) Xanthan gum		2.000	thickener
С	Parfum		0.500	fragrance
	Jojoba Esters		0.500	peeling
Α	CI 47005		0.010	pigment
Α	Sodium Benzoate		0.400	preservative
	Citric Acid		0.100	pH adjuster
Α	Aqua		80.900	solvent



APPEARANCE	visual method	green gel with peeling
рН		5.5 - 5.8
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- 1. Add ingredients from phase A to water. Mix until homogenous solution is obtained.
- 2. Add phase B during mixing to phase A. Mix until homogenous solution is obtained.
- 3. Add ingredients from phase C to the main mixer and mix.
- Add balls.
- 5. Adjust pH by Citric Acid to 5.5-5.8.

#### FACE WASH MOUSSE WITH ZINC [RD-23]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Sodium Cocoyl Isethionate		14.00	surfactant
Α	Zinc Coceth Sulfate	EXOsoft ZN	1.20	surfactant
Α	Cocoaminopropyl Betaine	ROKamina K30	2.00	surfactant
В	Glycerin		18.00	active
В	Sorbitol		10.00	active
В	Allantoin		1.00	active
С	Parfum		0.20	fragrance
С	CI 45100		0.002	dye
С	CI 42090		0.001	dye
D	Sodium Benzoate		0.50	preservative
D	Potassium Sorbate		0.30	preservative
E	Lactic Acid		0.30	pH adjuster
Α	Aqua		52.50	solvent



APPEARANCE	visual method	purple paste
рН		5.0 - 5.5
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### Procedure:

- 1. AddingredientsfromphaseAtowarmwater(40-45°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- 3. Add phase B during mixing. Mix until homogenous solution is obtained.
- 4. Add phase C-E ingredients while mixing mix until uniform.
- 5. Adjust pH by Lactic Acid to 5,0-5,5.







Face Treatment

### **MAKE UP** REMOVERS & MICELLAR FLUIDS

Eye Make-up Remover and micellar fluid products are intended to help easily remove make-up that has been applied. They help to remove the applied color and to make sure it easily wipes off using a tissue.

Ideally, we should remove our make-up not only before going to bed but refresh it after wake up. In the morning, it helps to get rid of perspiration and sebum accumulated on the skin overnight.



Makeup removal should be part of our daily skin care ritual because it is healthy for skin.

#### The specific benefits of make-up removers are:

- · washes away cosmetics, impurities and dirt from the surface of our skin, which could lead to irritation or cause our skin to age more rapidly
- reduces the risk of developing pimples, redness, blackheads and other types of blemishes
- promotes cellular renewal by eliminating dead skin
- stimulates skin's microcirculation due to the massage action
- lets our skin breathe



#### **CLEANSING LOTION [KD-348]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		to 100.00	solvent
	Benzyl Alcohol, Ethylhexylglycerin, Tocopherol		0.60	preservative
	Sclerotium Gum, Xanthan Gum		0.25	rheology modifier
	Lactic Acid		0.20	pH adjuster
В	Helianthus Annuus Seed Oil		6.00	emollient
	Cetearyl Alcohol	ExoAlc 1618 flakes	3.50	emulsion stabilizer
	Polysorbate 80	ROKwinol 80	3.00	emulsifiers
	PPG-15 Stearyl Ether	ROKAnol SP15	6.00	emollient
	PPG-5-Ceteth-20	ROKAnol LP6066	2.00	emollient
С	Potassium Cocoate	EXOsoft PC35	2.00	surfactant
	Potassium Oleate	EXOsoft PO30	3.00	surfactant



APPEARANCE	visual method	emulsion
рН		7.5 - 8.5
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- 1. In a main vessel combine ingredients from the phase A. Heat phase A to 75-80°C while mixing.
- 2. In a separate vessell combine ingredients from the phase B.
- 3. Heat phase B to 75-80°C.

- 4. Add B into A, stir well, keep A/B at 75-80°C. Homogenize with 2000-3000 RPM, 90 sec.
- 5. Cool the batch down to 30°C while mixing.
- 6. Add EXOsoft PC35, EXOsoft PO30 mix until uniform.

#### **MICELLAR EMULSION [KD-86.1]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		to 100.00	solvent
	Methylparaben		0.25	preservative
	Ethylparaben		0.25	preservative
	Glycerin		0.20	solvent
	Cetearyl Alcohol	EXOalc 1618 flakes	2.40	emulsion stabilizer
	Stearic Acid		0.30	rheology modifier
	Sodium Lauryl Sulfate	ROSULfan L	1.50	surfactant



APPEARANCE	visual method	white emulsion
рН		5.0 - 7.0
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. In a main vessel combine ingredients. Heat to 75-80°C while mixing. Homogenize with 800-1200 RPM, 90 sec.
- 2. Cool the batch down to 50°C while mixing. Homogenize with 800-1200 RPM, 60 sec.
- 3. Cool the batch down to 25°C while mixing. Homogenize with 800-1200 RPM, 30 sec.

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#### MICELLAR CLEANSING FLUID [DEM-01]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Aqua		85.46	solvent
	PEG-7/PPG-2 Propylheptyl Ether	ROKAnol GA7LAW	3.00	surfactant
	PEG-40 Hydrogenated Castor Oil	ROKAcet HR40	4.00	surfactant
	Glycerin		1.00	moisturising agent
	Propylene Glycol		6.00	solvent
	Parfum		0.50	fragrance
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Citric Acid		0.04	pH modifier



APPEARANCE	visual method	clear colorless liquid
рН		4.8 - 5.5
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Heat up the water to 40-50°C and add the ingredients one after another in order from the table above.
- 2. Before adding a parfum cool down the mixture to room temperature and add the rest of ingredients.
- 3. Add Citric Acid if necessary.

#### MAKE-UP REMOVING LIQUID [KD-70]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		92.85	solvent
	Betaine		0.10	active
	Glycerin		3.00	moisturising agent
	Citric Acid		0.05	pH adjuster
	Sodium Lauroyl Sarcosinate	ROKAtend LS	2.00	surfactant
В	Phenoxyethanol, Ethylhexylglycerin		1.00	preservative
	Propylene Glycol		1.00	solvent



APPEARANCE	visual method	transparent liquid
рН		5.0 - 7.0
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. In a main vessel combine ingredients from phase A and heat up to 65-70°C.
- 2. Combine ingredients from phase B in a separate vessel and mix until uniform.
- 3. Cool the batch down to at least 50°C while mixing.
- 4. Add phase B to phase A and mix well.
- 5. Cool the batch down to at least 30°C while mixing.

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#### MAKE-UP REMOVING LIQUID [KD-71]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		92.94	solvent
	Betaine		0.25	active
В	Glycerin		1.00	moisturising agent
	Xanthan Gum		0.05	rheology modifier
С	Sodium Lauroyl Sarcosinate	ROKAtend LS	4.00	surfactant
D	Polysorbate 20	ROKwinol 20	0.20	surfactant
	Phenoxyethanol, Ethylhexylglycerin		1.00	preservative
	Propylene Glycol		0.50	solvent
E	Citric Acid		0.06	pH adjuster



APPEARANCE	visual method	transparent liquid
рН		5.0 - 6.5
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- 1. In a main vessel combine ingredients from phase A and heat up to 65-70°C.
- 2. Add Xanthan Gum to Glycerin mix until uniform. Add phase B to phase A while mixing. Mix until uniform.
- 3. Cool the batch down to at least 50°C.

- 4. Combine ingredients from phase D in a separate vessel and mix until uniform.
- 5. Add ingredients from phase C, D and E to phase A while mixing. Mix until uniform.

#### MAKE-UP REMOVING LIQUID [KD-72]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		87.55	solvent
	Pentylene Glycol		4.00	solvent
	Methylparaben		0.15	preservative
	Ethylparaben		0.15	preservative
	Betaine		0.10	active
	Glycerin		4.00	moisturising agent
В	Sodium Lauroyl Sarco	osinate ROKAtend LS	4.00	surfactant
С	Citric Acid		0.05	pH adjuster



APPEARANCE	visual method	transparent liquid
рН		5.0 - 7.0
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- 1. Combine ingredients from phase A. Add ingredients from phase A to hot water (75-80°C). Mix until homogenous solution is obtained. Cool the batch down to at least 50°C.
- 2. Add Sodium Lauroyl Sarcosinate. Mix until uniform. Cool the batch down to at least 30°C.
- 3. If necessary, adjust pH by Citric Acid to 5.0 7.0.

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#### MAKE-UP REMOVING LIQUID [KD-73]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		87.85	solvent
	Betaine		0.10	active
	Glycerin		5.00	moisturising agent
В	Phenoxyethanol, Ethylhexylglycerin		1.00	preservative
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	2.00	surfactant
	Sodium Lauroyl Sarcosinat	e ROKAtend LS	4.00	surfactant
E	Citric Acid		0.05	pH adjuster



APPEARANCE	visual method	transparent liquid
рН		5.0 - 7.0
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. Combine ingredients from phase A. Add ingredients from phase A to hot water (75-80°C). Mix until homogenous solution is obtained. Cool the batch down to at least 50°C.
- 2. Add ingredients from phase B. Mix until uniform. Cool the batch down to at least 30°C.
- 3. If necessary, adjust pH by Citric Acid to 5.0 7.0.

#### MAKE-UP REMOVING MILK [KD-85]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Ceteareth-12	ROKAnol T12	1.00	emulsifier
	Ceteareth-25	ROKAnol T25	1.00	emulsifier
	Cetearyl Alcohol		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
В	Aqua		83.35	solvent
	Betaine		0.50	active
С	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	solvent



APPEARANCE	visual method	white emulsion
рН		5.0 - 7.0
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- 1. In a separate vessell 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. Homogenise 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. Homogenise with 2000-3000 RPM, 120 sec.
- Cool the batch down to 50°C while mixing. Add phase E ingredients while mixing. Homogenise with 2500-3500 RPM, 90 sec.
- 7. Cool the batch down to 25°C. Add phase Fingredients while mixing. Homogenise with 2500-3500 RPM, 90 sec.

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#### MAKE-UP REMOVING LIQUID [RD-10]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	PEG-6 Caprylic/Capric Glycerides	ROKAcet CC6	4.00	surfactant
Α	Polysorbate 20	ROKwinol 20	0.20	solubilizer
Α	Poloxamer 184	EXOmer L64	0.20	surfactant
В	Glycerin		1.00	active
В	Xanthan Gum		0.05	rheology modifier
С	Betaine		0.25	active
С	Parfum		0.30	fragrance
С	Phenoxyethanol, Ethylhexylglycerin		1.00	preservative
С	Propylene Glycol		0.50	solvent
D	Citric Acid		0.06	pH adjuster
Α	Aqua		92.50	solvent



APPEARANCE	visual method	clear transparent liquid
рН		5.0 - 5.5
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### Procedure:

- 1. Add ingredients from phase A to warm water (40-45°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- 3. Mix phase B and add during mixing. Mix until homogenous solution is obtained.
- 4. Add phase C while mixing- mix until uniform.
- 5. Adjust pH by CitricAcid to 5.0-5.5.







Face Treatment

# **SHAVING PRODUCTS**

**Shaving products** are intended to be used to assist in the removal of unwanted body hair. Those products have to guarantee the ease and effective shaving for both women and men. Cosmetic category called "shaving products" beside of typical shaving product include cosmetics such as shaving soaps and creams as well as pre- and after shaving lotions.

Shaving products are oftenly dispensed as an aerosol foam or gel that produces a lather when rubbed on the skin. Shaving Creams typically contain ingredients that help lubricate the skin so that the razor can work effectively.

In every shaving cream formulation, each ingredient plays a role, however some ingredients are essential, others only have a minor effect.



The performance of the cream serves as the ultimate test for the formulation and indicates whether the correct blend of ingredients and concentrations has been used. In addition, shaving creams often contain ingredients including: botanicals, essential oil derivatives, chelators, preservatives and other chemicals. Besides modulating performance, these ingredients can add antiseptic qualities, serve as skin toners, increase shelf life, etc. but more importantly, they make each formulation unique.

#### SHAVE GEL FOR MEN [KD-142]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Carbomer		0.40	rheology modifier
	Allantoin		0.20	active
	Glycerin		3.00	solvent
	CI 42090		0.0001	colorant
В	Sodium Hydroxide		0.30	pH adjuster
С	Sodium Polyacrylate, Ethylhexyl Stearate, Trideceth-6		1.00	rheology modifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	4.00	emollient
	PPG-5-Ceteth-20	ROKAnol LP6066	1.00	emollient
	Dimethicone		1.00	emollient
	Phenoxyethanol, Ethylhexylglycerin		1.00	preservative



APPEARANCE	visual method	blue opaque gel
рН		5.0 - 7.0
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- 1. Combine ingredients from phase A. Add slowly Carbomer to water while mixing. Mix until uniform. Add other phase A components. Homogenize with 2000-3000 RPM, 90-120 sec.
- 2. Add Sodium Hydroxide while mixing. Mix until uniform.
- 3. Add phase C ingredients while mixing. Homogenize with 2000-3000 RPM, 120-180 sec.





#### **ULTRA RICH AFTER SHAVE LOTION [KD-144]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Ceteareth-25, Cetearyl Alcohol	ROKAnol TE25 Flakes	3.50	emulsifier
	Paraffinum Liquidum		3.00	emollient
	Dimethicone		0.50	emollient
	PPG-15 Stearyl Ether	ROKAnol SP15L	4.00	emollient
В	Aqua		83.20	solvent
	Betaine		2.00	active
	Glycerin		1.00	solvent
	Allantoin		0.20	active
С	Carbomer		0.20	rheology modifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	1.00	emollient
D	Sodium Hydroxide		0.15	pH adjuster
E	Phenoxyethanol, Ethylhexylglycerin		0.90	preservative
F	Parfum		0.35	fragrance



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

#### Procedure:

- 1. In separate vessels combine ingredients from phase A and B. Heat up to 75-80°C.
- 2. Add phase A to phase B while mixing. Homogenize 60-90 sec. In separate vessel combine ingredients from phase C. Mix until uniform.
- 3. Cool the batch down to 50°C while mixing. Add phase
- C ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec.
- 4. Cool the batch down to 30°C while mixing.
- 5. Add phase D and F while mixing. Homogenize with 2500-3500 RPM, 90 sec.

#### **LIGHT AFTER SHAVE LOTION [KD-147]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Ceteareth-25, Cetearyl Alcohol	ROKAnol TE25 Flakes	4.00	emulsifier
	Glycine Soja Oil		1.00	emollient
	Dimethicone		1.00	emollient
	PPG-15 Stearyl Ether	ROKAnol SP15L	2.00	emollient
В	Aqua		83.80	solvent
	Betaine		1.00	active
	Allantoin		0.10	active
С	Carbomer		0.20	rheology modifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	0.50	emollient
	Cyclopentasiloxane		1.00	emollient
D	Sodium Hydroxide		0.10	pH adjuster
E	Phenoxyethanol, Ethylhexylglycerin		0.80	preservative
F	Aluminum Starch Octenylsuccinate		1.00	absorbent
	Parfum		0.50	fragrance
G	Alcohol		3.00	solvent



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

#### Procedure:

- 1. In separate vessels combine ingredients from phase A and B. Heat up to 75-80°C.
- 2. Add phase A to phase B while mixing. Homogenize 60-90 sec. In separate vessel combine ingredients from phase C. Mix until uniform.
- 3. Cool the batch down to 60°C while mixing. Add phase C and D ingredients while mixing. Homogenize with
- 2500-3500 RPM, 90 sec.
- 4. Cool the batch down to 40-50°C while mixing. Add phase D, E and F ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec. Cool the batch down to 30°C while mixing.
- 5. Add phase F and G while mixing. Homogenize with 2500-3500 RPM, 90 sec.



#### **UNIVERSAL AFTER SHAVE LOTION [KD-347]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Allantoin		0.20	active
В	Polysorbate 80	ROKwinol 80	1.50	emulsifier
	PPG-5-Ceteth-20	ROKAnol LP6066	1.00	emollient
	Paraffinum Liquidum		2.50	emollient
С	PPG-15 Stearyl Ether	ROKAnol SP15L	1.50	emollient
	Carbomer		0.25	rheology modifier
D	Sodium Hydroxide	Sodium Hydroxide, 20% Solution	0.35	pH adjuster
Е	Phenoxyethanol, Ethylhexylglycerin		0.80	preservative
F	Aluminum Starch Octenylsuccinate		1.00	absorbent
G	Parfum		0.50	fragrance
Н	Alcohol		3.00	solvent



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

#### **Procedure:**

- 1. In separate vessels combine ingredients from phase A and B.
- 2. Add phase B to phase A while mixing. Homogenize 60-90 sec. In separate vessel combine ingredients from phase C. Mix until uniform.
- 3. Add phase C while mixing. Homogenize with 2500-3500 RPM, 45 sec.
- 4. Add phase D while mixing. Homogenize with 2500-3000 RPM, 45 sec.
- 5. Add phase E F ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec.

#### AFTER SHAVE GEL [KD-356]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.40	rheology modifier
	Allantoin		0.20	active
	CI 42090		0.0001	colorant
В	Sodium Hydroxide		0.30	pH adjuster
С	PPG-15 Stearyl Ether	ROKAnol SP15L	3.00	emollient
	PPG-5-Ceteth-20	ROKAnol LP6066	1.00	emollient
	Starch Hydroxypropyl Trimonium Chloride		0.10	emollient
	Phenoxyethanol, Ethylhexylglycerin		1.00	preservative



APPEARANCE	visual method	blue opaque gel
рН		5.0 - 7.0
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- 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. Homogenize with 2000-3000 RPM, 90-120 sec.
- Add Sodium Hydroxide (20% solution) while mixing. Mix until uniform.
- 3. Add phase C ingredients while mixing. Homogenize with 2000-3000 RPM, 120-180 sec.

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#### **AFTERSHAVE [KD-358]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Allantoin		0.20	active
В	PPG-5-Ceteth-20	ROKAnol LP6066	0.20	emollient
	Trideceth-9, PEG-40 Hydrogenated Castor Oil, Aqua	EXOcare HTW	1.25	surfactant
	Parfum		1.00	fragrance
С	Phenoxyethanol, Ethylhexylglycerin		1.00	preservative



APPEARANCE	visual method	clear colorless liquid
рН		5.0 - 7.0
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- 1. Combine ingredients from phase A  $-\,$  mix until uniform.
- 2. Combine ingredients from phase B mix until uniform.
- 3. Add phase B and C ingredients while mixing.

#### **BEARD WASH GEL FOR MEN [KD-330]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Oleth-5 Phosphate	EXOcare PB-184	0.25	surfactant
	Polyquaternium-7		1.00	conditioner
В	Ammonium Lauryl Sulfate, Ammonium Laureth Sulfate, Cocamidopropyl Betaine, Sodium Benzoate	EXOcare AAC 35 easy	20.00	surfactant
	Aqua, Sodium Benzoate, Potassium Sorbate		0.60	preservative
	Parfum		0.50	fragrance
С	Sodium Chloride		0.50	thickener



APPEARANCE	visual method	gel
рН		5.0 - 5.8
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 3.0 RPM, T: 25°C	2000 - 7000
STABILITY	1 month at 5°C, 20°C, -5/40°C	confirmed

#### **Procedure:**

- 1. In a main vessel combine ingredients from phase A mix until uniform.
- 2. Add EXOcare AAC 35 easy, preservative, fragrance while mixing mix until uniform.
- 3. Add slowly Sodium Chloride while mixing mix until uniform.

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#### AFTER SHAVING MOISTURIZING GEL [KD-101]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		0.40	rheology modifier
	Betaine		2.00	active
	CI 42090		q.s.	colorant
В	Sodium Hydroxide		0.15	pH adjuster
С	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
рН		4.5 - 5.5
STABILITY	1 month at 5°C, RT, 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. Homogenise with 2000-3000 RPM, 90-120 sec.
- 3. Add phase C ingredients while mixing. Homogenise with 2000-3000 RPM, 90-120 sec.

#### **AFTER SHAVE LOTION [KD-144]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Cetearyl Alcohol, Ceteareth-20	ROKAnol TE20 Flakes	3.50	emulsifier
	Paraffinum Liquidum		3.00	emollient
	Dimethicone		0.50	emollient
	PPG-15 Stearyl Ether	ROKAnol SP15L	4.00	emollient
В	Aqua		83.20	solvent
	Betaine		2.00	active
	Glycerin		1.00	solvent
	Allantoin		0.20	active
С	Carbomer		0.20	rheology modifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	1.00	emollient
D	Sodium Hydroxide		0.15	pH adjuster
E	Phenoxyethanol, Ethylhexylglycerin		0.90	preservative
F	Parfum		0.35	fragrance



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

#### **Procedure:**

- 1. In separate vessels combine ingredients from phase A and B. Heat up to 75-80°C
- 2. Add pharse A to phase B while mixing. Homogenize 60-90 sec. In a separate vessel combine ingredients from phase C. Mix until uniform.
- 3. Cool the batch down to 50°C while mixing. Add phase C ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec.
- 4. Cool the batch down to 30°C while mixing.
- 5. Add phase D and F while mixing. Homogenize with 2500-3500 RPM, 90 sec.



#### **AFTER SHAVE LOTION [KD-147]**

A Cetearyl Alcohol, Ceteareth-20 ROKAnol TE20 Flakes 4.00 emulsifier  Glycine Soja Oil 100 emollient  Dimethicone 100 emollient  PPG-15 Stearyl Ether ROKAnol SP15L 2.00 emollient  B Aqua 83.80 solvent  Betaine 100 active  Allantoin 0.10 active  C Carbomer 0.20 rheology modifier  PPG-15 Stearyl Ether ROKAnol SP15L 0.50 emollient  Cyclopentasiloxane 1.00 emollient  Cyclopentasiloxane 1.00 emollient  D Sodium Hydroxide 0.10 pH adjuster  E Phenoxyethanol, Ethylhexylglycerin 2.80 preservative  F Aluminum Starch Octenylsuccinate  F Parfum 0.50 fragrance  G Alcohol 3.00 solvent	PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Dimethicone 1.00 emollient  PPG-15 Stearyl Ether ROKAnol SP15L 2.00 emollient  B Aqua 83.80 solvent  Betaine 1.00 active  Allantoin 0.10 active  C Carbomer 0.20 rheology modified  PPG-15 Stearyl Ether ROKAnol SP15L 0.50 emollient  Cyclopentasiloxane 1.00 emollient  D Sodium Hydroxide 0.10 pH adjuster  E Phenoxyethanol, Ethylhexylglycerin 0.80 preservative  F Aluminum Starch Octenylsuccinate  F Parfum 0.50 fragrance	Α		ROKAnol TE20 Flakes	4.00	emulsifier
PPG-15 Stearyl Ether ROKAnol SP15L 2.00 emollient  B Aqua 83.80 solvent  Betaine 1.00 active  Allantoin 0.10 active  C Carbomer 0.20 rheology modified  PPG-15 Stearyl Ether ROKAnol SP15L 0.50 emollient  Cyclopentasiloxane 1.00 emollient  D Sodium Hydroxide 0.10 pH adjuster  E Phenoxyethanol, Ethylhexylglycerin 1.00 absorbent  F Aluminum Starch Octenylsuccinate  F Parfum 0.50 fragrance		Glycine Soja Oil		1.00	emollient
Betaine 1.00 active  Allantoin 0.10 active  C Carbomer 0.20 rheology modified  PPG-15 Stearyl Ether ROKAnol SP15L 0.50 emollient  Cyclopentasiloxane 1.00 emollient  D Sodium Hydroxide 0.10 pH adjuster  E Phenoxyethanol, Ethylhexylglycerin 0.80 preservative  F Aluminum Starch Octenylsuccinate  F Parfum 0.50 fragrance		Dimethicone		1.00	emollient
Betaine 1.00 active 2.00 Allantoin 0.10 active 2.00 Carbomer 0.20 rheology modified 2.00 PPG-15 Stearyl Ether ROKAnol SP15L 0.50 emollient 2.00 Cyclopentasiloxane 1.00 emollient 2.00 pH adjuster 2.00 Ethylhexylglycerin 2.00 0.80 preservative 2.00 preservative 3.00 absorbent 3.00 fragrance 3.00 fragrance 3.00 preservative 3.00 preserva		PPG-15 Stearyl Ether	ROKAnol SP15L	2.00	emollient
Allantoin 0.10 active  C Carbomer 0.20 rheology modified  PPG-15 Stearyl Ether ROKAnol SP15L 0.50 emollient  Cyclopentasiloxane 1.00 emollient  D Sodium Hydroxide 0.10 pH adjuster  E Phenoxyethanol, Ethylnexylglycerin 0.80 preservative  F Aluminum Starch Octenylsuccinate 1.00 absorbent  F Parfum 0.50 fragrance	В	Aqua		83.80	solvent
C Carbomer 0.20 rheology modified  PPG-15 Stearyl Ether ROKAnol SP15L 0.50 emollient  Cyclopentasiloxane 1.00 emollient  D Sodium Hydroxide 0.10 pH adjuster  E Phenoxyethanol, Ethylhexylglycerin 0.80 preservative  F Aluminum Starch Octenylsuccinate 1.00 absorbent  F Parfum 0.50 fragrance		Betaine		1.00	active
PPG-15 Stearyl Ether ROKAnol SP15L 0.50 emollient  Cyclopentasiloxane 1.00 emollient  D Sodium Hydroxide 0.10 pH adjuster  E Phenoxyethanol, Ethylhexylglycerin 0.80 preservative  F Aluminum Starch Octenylsuccinate 1.00 absorbent  F Parfum 0.50 fragrance		Allantoin		0.10	active
Cyclopentasiloxane 1.00 emollient  D Sodium Hydroxide 0.10 pH adjuster  E Phenoxyethanol, Ethylhexylglycerin 0.80 preservative  F Aluminum Starch Octenylsuccinate 1.00 absorbent  F Parfum 0.50 fragrance	С	Carbomer		0.20	rheology modifier
D Sodium Hydroxide 0.10 pH adjuster  E Phenoxyethanol, Ethylhexylglycerin 0.80 preservative  F Aluminum Starch Octenylsuccinate 1.00 absorbent  F Parfum 0.50 fragrance		PPG-15 Stearyl Ether	ROKAnol SP15L	0.50	emollient
E       Phenoxyethanol, Ethylhexylglycerin       0.80       preservative         F       Aluminum Starch Octenylsuccinate       1.00       absorbent         F       Parfum       0.50       fragrance		Cyclopentasiloxane		1.00	emollient
F       Aluminum Starch Octenylsuccinate       1.00       absorbent         F       Parfum       0.50       fragrance	D	Sodium Hydroxide		0.10	pH adjuster
F Octenylsuccinate 1.00 absorbent  F Parfum 0.50 fragrance	E			0.80	preservative
	F			1.00	absorbent
G Alcohol 3.00 solvent	F	Parfum		0.50	fragrance
	G	Alcohol		3.00	solvent



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

#### **Procedure:**

- 1. In separate vessels combine ingredients from phase A and B. Heat up to 75-80°C
- 2. Add phase A to phase B while mixing. Homogenize 60-90 sec. In a separate vessel combine ingredients from phase C. Mix until uniform.
- 3. Cool the batch down to 60°C while mixing. Add phase C and D ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec.
- 4. Cool the batch down to 40-50°C while mixing. Add phase D, E and F ingredients while mixing. Homogenize with 2500-3500 RPM, 90 sec. Cool the batch down to 30°C while mixing.
- 5. Add phase F and G while mixing. Homogenize with 2500-3500 RPM, 90 sec.

#### **AFTER SHAVE LOTION [RD-04]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		to 100	solvent
Α	Allantoin		0.20	active
В	Polysorbate 80	ROKwinol 80	1.50	emulsifier
В	C12-15 Alkyl Benzoate	EXOsoft AB25	2.00	emollient
С	PPG-15 Stearyl Ether	ROKAnol SP15L MB	1.50	emollient
Α	Carbomer		0.25	rheology modifier
D	Sodium Hydroxide	Sodium Hydroxide, 20% Solution	0.35	pH adjuster
	Phenoxyethanol, Ethylhexylglycerin		0.80	preservative
	Parfum		0.50	fragrance
Н	Alcohol		3.00	solvent



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

#### **Procedure:**

- In separatly vessel combine ingredients from phase A and B.
- 2. Add phase B to phase A while mixing. Homogenize 60-90 sec. In separatly vessel combine ingredients from phase C. Mix until uniform.
- 3. Add phase C while mixing. Homogenize with 2500-3500 RPM, 45 sec.
- 4. Add phase D while mixing. Homogenize with 2500-3000 RPM, 45 sec.

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# SHAMPOOS & CONDITIONERS

Shampoo is a basic hair care product representing the largest segment of hair care cosmetics. Typically, hair products are in the form of a viscous liquid, that is used for cleaning hair with some exception of waterless solid form such as bar.

Shampoo is used by applying it to wet hair, massaging the product into the hair, and then rinsing it out. Some consumers may follow a shampooing with the use of products called 2 in 1. Conditioning shampoos, were introduced to global markets in the late 1980s. A conditioning shampoo is designed to deposit conditioning actives on hair while washing off dirt at the same time.

The typical reason of using shampoo is to cleansing scalp, environmental dust, residues of hair care products and to remove the unwanted build-up of sebum in the hair. Most of the dirt including sebum are water insoluble and cannot be effectively removed by water alone. Therefore, a shampoo contain a combination of surfactants. The content of surfactants in a shampoo is typically between 10% - 20%.

Formulated shampoos are designed to target every hair & lifestyle need by nourishing, strengthening and repairing hair with a variety of ingre--dients from natural to synthetic.



Specialty shampoos are design to people with dandruff, color-treated hair, gluten or wheat allergies, an interest in using an organic product, and infants and young children.



#### SHAMPOO BAR [IT-207]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Cetearyl Alcohol	EXOalc 1618	24.0	thickener
	Cera Alba		2.0	thickener
	Hydrogenated Castor Oil		20.0	thickener
	Citric Acid		1.5	pH adjuster
	PEG-150	POLIkol 6000	3.5	thickener
	Stearic Acid		2.0	rheology modifier
В	Glycerin		4.0	solvent
В	Cocamidopropyl Betaine	ROKAmina K30	13.0	surfactant
С	Sodium Lauryl Sulfate	ROSULfan LP	30.0	surfactant

#### Procedure:

- 1. Into auxilary vessel add homogeneous from phase A and heat up to 80°C, mix until homogenous solution is obtained.
- 2. Cool the batch down to 70°C and add ingredients from phase B, mix.
- 3. Into main vessel add ROSULfan LP and solution from auxilary vessel while mixing.

#### PEARL SHAMPOO FOR DAILY CARE [KD-131.1]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		to 100.00	solvent
	Aqua, Sodium Benzoate, Potassium Sorbate		0.70	preservative
	Betaine		2.00	active
	Lactic Acid		0.25	pH adjuster
В	Ammonium Lauryl Sulfate	ROSULfan A	30.00	surfactant
С	Cocamidopropyl Betaine	ROKAmina K30	5.00	surfactant
D	Parfum		0.35	fragrance
E	Glycol Distearate, Laureth-4, Cocamidopropyl Betaine	EXOpearl SF	1.00	pearling agent
F	Sodium Chloride		1.30	thickener



APPEARANCE	visual method	pearl gel
рН		4.5 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6.0 RPM, T: 25°C	2500 - 6000

#### Procedure:

- 1. In a main vessel combine ingredients from phase A. Mix until uniform.
- 2. Add ROSULfan A while mixing. Mix until uniform.
- 3. Add slowly ROKAmina K30 and Parfum while mixing. Mix until uniform.
- 4. Add EXOpearl SF while mixing. Mix until uniform.
- 5. Add slowly Sodium Chloride. Mix until uniform. NOTE: Add Sodium Chloride in small portions. Control the viscosity after each portion.

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#### **CLASSIC SHAMPOO [SZ-01]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		37.95	solvent
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	2.00	re-oiling agent
	Polyquaternium 7		2.50	conditioning agent
	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	4.00	surfactant
	Sodium Laureth Sulfate	SULFOROKAnol L227/1	30.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	15.00	surfactant
В	Citric Acid		0.05	pH modifier
С	PEG-120 Methyl Glucose Dioleate		1.00	thickening agent
D	Parfum		0.50	fragrance
	Ehylhexyl Glycerine, Phenoxyethanol		1.00	preservative
	Cocamidopropyl Betaine	ROKAmina K30	4.50	surfactant
E	Sodium Chloride		1.50	viscosity modifier



APPEARANCE	visual method	turbid gel
рН		5.0 - 7.0
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 20°C	1500 - 5000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- 1. Add ingredients from phase A to the hot water (70-75°C).
- 2. While mixing add ingredients one after another in the order from the table above. Mix until uniform.
- 3. Cool the batch down to at least 50°C.
- 4. Control pH range. If necessary, adjust pH by Citric Acid to 5.0-7.0.
- 5. Add PEG-120 Methyl Glucose Dioleate during mixing. Mix until uniform. Cool the batch down to at least 35°C.
- 6. Add fragrance, preservative and Cocamidopropyl Betaine during mixing. Mix until uniform.

#### PEARL SHAMPOO [SZ-02]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		39.89	solvent
	Citric Acid		0.06	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
В	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	1.50	re-oiling agent
	PEG-120 Methyl Glucose Dioleate		1.00	thickening agent
С	Parfum		0.50	fragrance
	Ehylhexyl 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
рН		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

#### Procedure:

- 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 homogenous 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.
- 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.
- $\hbox{8. Control the viscosity if necessary, add } \hbox{Sodium Chloride}.$



#### SHAMPOO FOR DAMAGED AND FRAGILE HAIR [SZ-03]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		46.62	solvent
	Xanthan Gum		0.75	viscosity modifier
	Glycerin		2.00	moisturising agent
	Microcrystalline Cellulose		0.50	viscosity modifier
В	Aqua		13.00	solvent
	Citric Acid		0.20	pH modifier
	Polyquaternium 10		0.03	conditioning agent
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	2.00	re-oiling agent
	Ammonium Lauryl Sulfate	ROSULfan A	10.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	20.00	surfactant
	Cocamidopropyl Betaine	ROKAmina K30	3.50	surfactant
С	Parfum		0.40	fragrance
	Ehylhexyl glycerine, Phenoxyethanol		1.00	preservative



APPEARANCE	visual method	viscosus milky gel
рН		5.0 - 7.0
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 3.0 RPM, T: 25°C	9000 - 11000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- In a main vessel combine ingredients from the phase A. Add Xanthan Gum to Glycerin - mix until homogenous solution is obtained. Add warm water (50-55°C) and Microcrystalline Cellulose. Mix until homogenous solution is obtained. Homogenise for 2-3 minutes.
- 2. Combine ingredients from the phase B. During mixing add Citric Acid and Polyquaternium-10 to warm water (50-60°C). Mix until homogenous solution is obtained.
- Add the rest of the phase B components. Mix until uniform
- 3. Add phase B to phase A. Mix until homogenous solution is obtained. Cool the batch down to 30°C.
- 4. When the batch temperature is 30°C, add parfum and preservative. Mix until uniform.

#### MILD BRIGHT-GREEN SHAMPOO [SZ-05]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Aqua		up to 100	solvent
	Benzophenone-4		0.05	UV absorber
	CI 19140		q.s.	colorant
	CI 42090		q.s.	colorant
	Ammonium Laureth Sulfate	SULFOROKAnol A325/1	35.00	surfactant
	Ammonium Lauryl Sulfate	ROSULfan A	15.00	surfactant
	Sodium Benzoate, Potassium Sorbate		0.60	preservative
	Citric Acid		q.s.	pH modifier
В	Aqua		1.50	solvent
	Citric Acid		0.01	pH modifier
	Polyquaternium 10		0.02	conditioning agent
С	Parfum		0.50	fragrance
	Cocamidopropyl Betaine	ROKAmina K30	5.00	surfactant
	Sodium Chloride		1.80	viscosity modifier



APPEARANCE	visual method	bright-green clear liquid
рН		4.7 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	2000 - 5000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- 1. During mixing add Citric Acid and polyquaternium-10 to warm water (40-45°C). Mix until homogenous solution is obtained.
- 2. Add ingredients from phase A to warm water (40-45°C). While mixing add ingredients one after another in the order from the table above. Mix until uniform.
- 3. Add phase B to phase A. Mix until homogenous solution is obtained. Cool the batch down to 35°C.
- 4. Add parfum and Cocamidopropyl Betaine during mixing. Mix until homogenous solution is obtained.
- 5. If necessary, add Sodium Chloride to adjust the viscosity.
- Control pH range if necessary, add Citric Acid. Mix well after adjustment.



#### 2 IN 1 SHAMPOO AND CONDITIONER [KD-131]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	Sodium Laureth Sulfate	SULFOROKAnol L227/1	12.00	surfactant
	Zinc Coceth Sulfate	EXOsoft ZN	20.00	surfactant
	Polyquaternium-7		1.00	film forming
В	Aqua, Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Allantoin		0.01	active
	CI 77891, Mica		0.01	colorant
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	0.50	surfactant
	PEG-120 Methyl Glucose Dioleate		1.00	thickener
С	Glycerin		0.45	solvent
	Xanthan Gum		0.20	rheology modifier
D	Sodium Laureth Sulfate, Cocamide DEA, Glycol Distearate	EXOpearl N	1.00	surfactant
E	Parfum		0.50	fragrance
F	Cocamidopropyl Betaine	ROKAmina K30K	6.00	surfactant
G	Sodium Chloride		0.50	thickener



APPEARANCE	visual method	pearling gel
рН		4.7 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 3.0 RPM, T: 25°C	5000 - 12000
STABILITY	1 month at 5°C, 20°C, -5/40°C	confirmed

#### Procedure:

- 1. In a main vessel combine ingredients from phase A mix until uniform (cloudy solution). In a separate vessel combine ingredients from phase C mix until uniform.
- 2. Prepare the remaining ingredients in separate beakers.
- 3. Add ingredients from phase B mix until uniform.
- 4. Add phase C ingredients while mixing mix until uniform.
- 5. Add phase D-F ingredients while mixing mix until uniform.
- 6. Add slowly Sodium Chloride while mixing mix until uniform.

#### HAIR CONDITIONER [KD-136]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Aqua		84.195	solvent
	Cetrimonium Chloride		3.00	conditioning agent
	Glycerin		1.00	solvent
	Betaine		2.00	active
В	Cetearyl Alcohol, Ceteareth-20	EXOcare TE20 flakes	5.00	emulsifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	2.00	emollient
	Glycine Soja Oil		0.50	emollient
С	Dimethicone		1.00	emollient
	Phenoxyethanol, Methylparaben, Ethylparaber Propylparaben	٦,	1.00	preservative
D	Parfum		0.30	fragrance
E	Sodium Hydroxide		0.005	pH adjuster



APPEARANCE	visual method	white emulsion
рН		5.0 - 6.0
VISCOSITY [cP]		_
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### Procedure:

- 1. In separate vessels combine ingredients from phase A and B. Heat up to 75-80°C. Add phase B to phase A while mixing.
- 2. Homogenize with 1500-2000 RPM, 90-120 sec.
- 3. Cool down batch to 70°C while mixing. Add C ingredients while mixing. Homogenize with 1500-2000 RPM, 90-120 sec.
- Cool down batch to 30°C while mixing. Add the other ingredients while mixing. Homogenize with 1500-2000 RPM, 90-120 sec.



#### SENSITIVES WASCHGEL & SHAMPOO [KD-382]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	Glycerin		1.00	moisturising agent
	Allantoin		0.10	active
	Sodium Coco Sulfate	Rosulfan C/PH	20.00	surfactant
	Coco-Glucoside		2.00	surfactant
	Betaine		1.00	active
	Benzyl Alcohol, Benzoic Acid, DehydroaceticAcid, Tocopherol		0.50	preservative
	Lactic Acid		0.20	pH adjuster
	Aloe Barbadensis Leaf Juice Powder		0.50	active
В	Cocamidopropyl Betaine	Rokamina K30	6.00	surfactant
	Sodium Chloride		1.50	thickener



APPEARANCE	visual method	transparent gel
рН		4.5 - 6.0
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 6.0 RPM, T: 25°C	1500 - 5000

#### Procedure:

- 1. In a main vessel combine ingredients from phase A. Add ingredients from phase A to water. Mix until uniform.
- 2. Add Rokamina K30 during mixing. Mix until uniform.
- 3. Add slowly Sodium Chloride. Mix until uniform. NOTE: Add Sodium Chloride in small portions. Control the viscosity after each portion.

#### 2 IN 1 SHAMPOO AND CONITIONER [RD-02]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A1	Xanthan Gum		0.30	rheology modifier
A1	Glycerin		1.00	solvent
В	Zinc Coceth Sulfate	EXOsoft ZN	20.00	surfactant
В	Cocamidopropyl Betaine	ROKAmina K30	6.00	surfactant
С	Glycol Distearate, Laureth-4, Cocoamidopropyl Betaine	EXOpearl SF	1.00	surfactant
D	Panthenol		0.10	active
D	Glycereth-26	ROKAnol G26	1.00	surfactant
D	PPG-15 Stearyl Ether	ROKAnol SP15L	0.50	emollient
D	PEG-120 Methyl Glucose Dioleate		0.90	thickener
D	Parfum		0.50	fragrance
E	Sodium Benzoate		0.40	preservative
F	Lactic Acid		0.30	pH adjuster
Α	Aqua		68.20	solvent



APPEARANCE	visual method	white with pearl effect
рН		4.7 - 5.5
VISCOSITY	Brookfield LV, spindle 34, speed 3.0 RPM, T: 25°C	5000 - 8000
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### Procedure:

- Mix ingredients from phase A1 and next add to warm water (40-45°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- 3. Add phase B during mixing. Mix until homogenous solution is obtained.
- 4. Add phase C-E ingredients ( PEG-120 Methyl Glucose Dioleate you should heat in separatly beaker) while mixing mix until uniform.
- 5. Adjust pH by Lactic Acid to 5.0-5.4.

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#### **BLACK SHAMPOO BAR FOR MEN [RD-06]**

A Cetearyl Alcohol EXOalc 1618 20.50 surfactant  A PEG-135 POLIkol 6000 12.0 thickener  B Cocamidopropyl Betaine ROKAmina K30 10.0 surfactant  C MIPA Laureth Sulfate, Propylene Glycol L390/1M 29.4 surfactant  A Charcoal Powder - 0.6 activ  A Hydrogenated Castor Oil - 20.0 thickener  A Stearic Acid - 4.0 rheology modifier  A Glycerin - 3.0 solvent	PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
B Cocamidopropyl Betaine ROKAmina K30 10.0 surfactant  C MIPA Laureth Sulfate, Propylene Glycol L390/1M 29.4 surfactant  A Charcoal Powder - 0,6 activ  A Hydrogenated Castor Oil - 20.0 thickener  A Stearic Acid - 4.0 rheology modifier	A	Cetearyl Alcohol	EXOalc 1618	20.50	surfactant
C MIPA Laureth Sulfate, Propylene Glycol L390/1M 29.4 surfactant  A Charcoal Powder - 0,6 activ  A Hydrogenated Castor Oil - 20.0 thickener  A Stearic Acid - 4.0 rheology modifier	А	PEG-135	POLIkol 6000	12.0	thickener
A Charcoal Powder - 0,6 activ  A Hydrogenated Castor Oil - 20.0 thickener  A Stearic Acid - 4.0 rheology modifier	В	Cocamidopropyl Betaine	ROKAmina K30	10.0	surfactant
A Hydrogenated Castor Oil - 20.0 thickener  A Stearic Acid - 4.0 rheology modifier	С			29.4	surfactant
A Stearic Acid - 4.0 rheology modifier	Α	Charcoal Powder	-	0,6	activ
	Α	Hydrogenated Castor Oil	-	20.0	thickener
A Glycerin - 3.0 solvent	Α	Stearic Acid	-	4.0	rheology modifier
	Α	Glycerin	-	3.0	solvent
C Parfum - 0.50 fragrance	С	Parfum	-	0.50	fragrance



APPEARANCE visual method

slightly yellowish viscous liquid

#### Procedure:

- 1. Into auxilary vessel add ingredients from phase A and heat up to 80°C, mix until homogenous solution is obtained.
- 2. Cool the batch down to 70°C and add ingredients from phase B. mix.
- Into main vessel add MIPA and solution from auxilary vessel while mixing.

#### SHAMPOO AND CONDITIONER 2 IN 1 FOR MEN [KD-131]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Sodium Laureth Sulfate	SULFOROKAnol L227/1	12.00	surfactant
	Zinc Coceth Sulfate	EXOsoft ZN	20.00	surfactant
	Polyquaternium-7		1.00	film forming
В	Aqua, Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Allantoin		0.01	active
	CI 77891, Mica		0.01	colorant
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	0.50	surfactant
	PEG-120 Methyl Glucose Dioleate		1.00	thickener
С	Glycerin		0.45	solvent
	Xanthan Gum		0.20	rheology modifier
D	Sodium Laureth Sulfate, Cocamide DEA, Glycol Distearate	EXOpearl N	1.00	surfactant
Е	Parfum		0.50	fragrance
F	Cocamidopropyl Betaine	ROKAmina K30K	6.00	surfactant
G	Sodium Chloride		0.50	thickener



APPEARANCE	visual method	pearling gel
рН		4.7 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 3.0 RPM, T: 25°C	5000 - 12000
STABILITY	1 month at 5°C, 20°C, -5/40°C	confirmed

#### Procedure:

- 1. In a main vessel combine ingredients from phase A mix until uniform (cloudy solution). In a separate vessel combine ingredients from phase C – mix until uniform.
- 2. Prepare the remaining ingredients in separate beakers.
- 3. Add ingredients from phase B mix until uniform
- 4. Add phase C ingredients while mixing mix until uniform.
- 5. Add phase D-F ingredients while mixing mix until
- 6. Add slowly Sodium Chloride while mixing mix until uniform.

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#### HAIR GEL WAX [KD-380]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Glycerin		0.50	solvent
	PPG-5-Ceteth-20	ROKAnol LP6066	0.80	surfactant/ emollient
A1	Laureth-3	ROKAnol LK3	5.00	surfactant
В	Ceteareth-25	ROKAnol T25 Flakes	23.00	emulsifying agent
С	Phenoxyethanol, Ethylhexylglycerin		0.50	preservative
D	Parfum		0.25	fragrance



APPEARANCE	visual method	clear, sticky gel
рН		5.0 - 7.5
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### Procedure:

- 1. In a separate vessell combine ingredients from phase A and B.
- 2. Prepare others ingredients phase A1, C and D.
- 3. Heat phase A and B to 75-80°C.
- 4. Add ROKAnol LK3 to phase A, keep A/A1 at 75-80°C.
- 5. Add ROKAnol® T25 Flakes (phase B) to phase A/A1 during mixing. Maintain the temperature of 75-80 ° C until dissolved.
- 6. Cool the batch down to 50°C. Add phase C and D ingredients while mixing.
- 7. Cool the batch down to 25°C.

#### STRONG HAIR GEL WAX [KD-381]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Aqua		up to 100	solvent
	Glycerin		0.50	solvent
	PPG-5-Ceteth-20	ROKAnol LP6066	0.50	surfactant/ emollient
A1	PVP	PVP K-30 100% Powder	1.00	hair fixing
	PVP	PVP K-90 100% Powder	1.00	hair fixing
В	Steareth-20	ROKAnol S20	32.00	emulsifying agent
С	Phenoxyethanol, Ethylhexylglycerin		0.50	preservative



APPEARANCE	visual method	clear, sticky gel
рН		5.0 - 7.5
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### Procedure:

- 1. In a separate vessell combine ingredients from phase A, A1.
- 2. Prepare others ingredients phase B and C.
- 3. Heat phase A and B to 75-80°C.
- 4. Add slowly phase A1 to phase A while mixing. Keep (phase A/A1) temperature at 75-80°C.
- Add very slowly ROKanol S20 (add small portion while mixing. Wait until uniform) to phase A/A1 diuring mixing. Maintain the temperature of 75-80 ° C until dissolved.
- 6. Add phase C while mixing.
- 7. Cool the batch down to 70°C.

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### **PRODUCTS DEDICATED** TO BABIES

The skin of infants, babies and children require special treatment. Each product form this category has to be developed in a way to support the natural functions of the skin. Carefully selected ingredients work together and strengthen each other, making cosmetics very effective in contact with even the most delicate, sensitive and problematic skin.

Babies, just like grown-ups, are exposed to many chemicals via personal care products throughout the day including sunscreens, ointments, oils, shampoos and soaps. Many of these products are easily absorbed through the skin into the blood stream, and babies are at least ten times more vulnerable to the chemicals in these products than adults.



Cosmetic products dedicated to babies must be safe for the health of infants and should only contain ingredients that are non-toxic; potent allergens or substances with endocrine disrupting activity should not be present and preservatives should be used at their lowest effective concentrations. Detailed recommendations for baby creams and lotions were agreed by experts in the field to provide guidance to manufacturers and safety assessors.





# MILD BABY SHAMPOO WITHOUT SALT ADDITION [SZ-06]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
A	Aqua		up to 100	solvent
	Sodium Benzoate, Potassium Sorbate		0.60	preservative
	Magnesium Laureth Sulfate	EXOsoft MGB	17.70	surfactant
	PEG-75 Lanolin	ROKAnol LN75/50	1.00	moisturising agent
	MEA Lauryl Sulfate	ROSULfan M	10.00	surfactant
В	PEG-120 Methyl Glucose Dioleate		1.50	thickening agent
С	Cocamidopropyl Betaine	ROKAmina K30	6.50	surfactant
	Parfum		0.30	fragrance
	Citric acid		q.s.	pH modifier



APPEARANCE	visual method	clear, light-yellow gel
рН		5.0 - 5.5
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	1500 - 5000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- **1.** Combine ingredients from phase A. Add ingredients from phase A to warm water (55-60°C). Mix until homogenous solution is obtained.
- **2.** Add PEG-120 Methyl Glucose Dioleate during mixing. Mix until uniform.
- 3. Cool the batch down to 35°C.

- **4.** Add parfum and Cocamidopropyl Betaine during mixing. Mix until uniform.
- **5**. If necessary, adjust pH by Citric Acid to 5.0 5.5.

# WASHING & BATHING LIQUD [2 in 1] FOR INFANTS [KD-21]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		79.90	solvent
	Xanthan Gum		0.80	rheology modifier
	Glycerin		3.00	moisturising agent
В	Lactic Acid		0.30	pH adjuster
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Betaine		2.00	active
	Sodium Lauroyl Sarcosinat	e ROKAtend LS	5.00	surfactant
	Panthenol		0.50	active
С	Cocamidopropyl Betaine	ROKAmina K30K	8.00	surfactant



APPEARANCE	visual method	transparent, viscous gel
рН		4.8 - 5.3
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	3000 - 9000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- 1. In a main vessel combine ingredients from the phase A. Add Xanthan Gum to Glycerin mix until homogenous solution is obtained. Add warm water (50-55°C). Mix until homogenous solution is obtained. Homogenise for 2-3 minutes.
- **2.** Add the phase B components. Mix until uniform. Cool the batch down to 35°C.
- **3.** When the batch temperature is 35°C, add Cocamidopropyl Betaine during mixing. Mix until uniform.
- **4.** Control the pH range if necessary, add Lactic Acid. Mix well after adjustment.



# WASHING & BATHING LIQUD [2 in 1] FOR INFANTS [KD-22]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		82.25	solvent
	Lauryl Glucoside		2.00	surfactant
	Betaine		1.00	active
	Glycerin		4.00	moisturising agent
	Lactic Acid		0.50	pH adjuster
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
В	Sodium Lauroyl Sarcosinate	e ROKAtend LS	4.00	surfactant
	Panthenol		0.25	active
С	PEG-120 Methyl Glucose Dioleate		0.50	thickener
D	Cocamidopropyl Betaine	ROKAmina K30	5.00	surfactant



APPEARANCE	visual method	hazy, viscosus gel
рН		4.8 - 5.3
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	3000 - 9000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- **1.** Combine ingredients from phase A. Add ingredients from phase A to warm water (55-60°C). Mix until homogenous solution is obtained. Cool the batch down to at least 50°C.
- **2.** Add ingredients from phase B durin mixing. Mix until uniform.
- **3.** Add PEG-120 Methyl Glucose Dioleate while mixing. Mix until uniform. Cool the batch down to at least 30°C.
- **4**. Add Cocoamidopropyl Betaine while mixing. Mix until uniform.

#### WASHING & BATHING GEL FOR INFANTS [KD-23]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		84.20	solvent
	Lauryl Glucoside		4.00	surfactant
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Glycerin		2.00	moisturising agent
	Lactic Acid		0.30	pH adjuster
В	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	2.00	surfactant
	Coco-Glucoside, Glyceryl Oleate		0.50	surfactant
С	PEG-120 Methyl Glucose Dioleate		0.50	thickener
D	Cocamidopropyl Betaine	ROKAmina K30	6.00	surfactant



APPEARANCE	visual method	bright-yellow, viscous gel
рН		4.8 - 5.3
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	2000 - 8000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- **1.** Combine ingredients from phase A. Add ingredients from phase A to warm water (55-60°C). Mix until homogenous solution is obtained. Cool the batch down to at least 50°C.
- 2. Add ingredients from phase B. Mix until uniform.
- **3.** Add PEG-120 Methyl Glucose Dioleate during mixing. Mix until uniform. Cool the batch down to at least 30°C.
- **4.** Add Cocamidopropyl Betaine during mixing. Mix until uniform.
- **5.** If necessary, adjust pH by Lactic Acid to 4.8 5.3.



#### HAIR & BODY WASHING FOAM FOR CHILDREN [KD-25]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		89.10	solvent
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Betaine		0.50	active
	Glycerin		2.00	moisturising agent
В	Disodium Laureth Sulfosuccinate	EXOsoft L3/40	5.50	surfactant
С	PEG-120 Methyl Glucose Dioleate		0.25	thickener
D	Lactic Acid		0.15	pH adjuster
	Cocamidopropyl Betaine	ROKAmina K30	2.00	surfactant



APPEARANCE	visual method	transparent liquid
рН		5.0 - 5.5
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- **1.** Combine ingredients from phase A. Add ingredients from phase A to warm water (45-50°C). Mix until homogenous solution is obtained.
- **2.** Add Disodium Laureth Sulfosuccinate during mixing. Mix until uniform.
- **3.** Add PEG-120 Methyl Glucose Dioleate during mixing. Mix until uniform. Cool the batch down to at least 30°C.
- **4.** Add Cocamidopropyl Betaine during mixing. Mix until uniform.
- **5.** Readjust the final pH to 5.0-6.5 with additional Lactic Acid.

#### **BATHING LIQUID FOR INFANTS [KD-26]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		up to 100	solvent
	Lauryl Glucoside		2.00	surfactant
	Glycerin		2.00	moisturising agent
	Betaine		0.50	active
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Lactic Acid		q.s	pH adjuster
В	Magnesium Laureth Sulfate	EXOsoft MG / EXOsoft MG	GB 12.00	surfactant
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	0.50	surfactant
	PEG-120 Methyl Glucose Dioleate		0.80	thickener
D	Cocamidopropyl Betaine	ROKAmina K30	6.00	surfactant



APPEARANCE	visual method	light-yellow liquid
рН		4.8 - 5.3
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 10 RPM, T: 25°C	1000 - 3000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- **1.** Combine ingredients from phase A. Add ingredients from phase A to warm water (50-55°C). Mix until homogenous solution is obtained. Cool the batch down to at least 50°C.
- **2.** Add ingredients from phase B while mixing. Mix until uniform. Cool the batch down to at least 30°C.
- **3.** Add Cocoamidopropyl Betaine during mixing. Mix until uniform.



#### **BATHING & WASHING LIQUID FOR INFANTS [KD-27]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		71.35	solvent
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Glycerin		2.00	moisturising agent
	Lactic Acid		0.35	pH adjuster
В	Ammonium Laureth Sulfate	SULFOROKAnol A325/1	15.00	surfactant
	Sodium Lauroyl Sarcosinate	ROKAtend LS	3.00	surfactant
С	Coco-Glucoside, Glyceryl Oleate		1.00	surfactant
	PEG-120 Methyl Glucose Dioleate		0.80	thickener
D	Coco Betaine	ROKAmina K30B	6.00	surfactant



APPEARANCE	visual method	light-yellow liquid
рН		4.8 - 5.3
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	1000 - 3000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### Procedure:

- **1.** Combine ingredients from phase A. Add ingredients from phase A to warm water (50-55°C). Mix until homogenous solution is obtained.
- 2. Add ingredients from phase B durin mixing. Mix until uniform.
- **3**. Add PEG-120 Methyl Glucose Dioleate and Coco-Glucoside, Glyceryl Oleate during mixing. Mix until uniform. Cool the batch down to at least 30°C.
- **4.** Add slowly Coco Betaine during mixing. Mix until uniform.

# BATHING & WASHING LIQUID FOR CHILDREN FROM 3 YEARS OLD [KD-33]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		76.90	solvent
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Betaine		0.50	active
	Glycerin		2.00	moisturising agent
	Decyl Glucoside		1.00	surfactant
В	MEA Lauryl Sulfate	ROSULfan M	10.00	surfactant
	PEG-7 Glyceryl Cocoate	ROKAcet KO300G	0.50	surfactant
С	Polysorbate 20	ROKwinol 20	0.30	surfactant
	Parfum		0.30	fragrance
D	Cocamidopropyl Betaine	ROKAmina K30	8.00	surfactant



APPEARANCE	visual method	light-yellow gel
рН		4.8 - 5.2
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	1000 - 4000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- **1.** Combine ingredients from phase A. Add ingredients from phase A to water (30-35°C). Mix until homogenous solution is obtained. Cool the batch down to at least 30°C.
- 2. Add ingredients from phase B. Mix until uniform.
- **3.** Combine ingredients from phase C in a separate vessel. Add Parfum to Polysorbate 20 mix until uniform.
- **4.** Add phase C to the main vessel while mixing. Mix until uniform.
- Add Cocoamidopropyl Betaine while mixing. Mix until uniform.
- 6. If necessary, adjust pH by Lactic Acid to 4.8-5.2.

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# BATHING LIQUID FOR CHILDREN FROM 3 YEARS OLD [KD-35]

INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Aqua		71.85	solvent
Sodium Laureth Sulfate	SULFOROKAnol L227/1	13.00	surfactant
Sodium Lauroyl Sarcosinate	ROKAtend LS	3.00	surfactant
Sodium Benzoate, Potassium Sorbate		0.50	preservative
Glycerin		3.00	moisturising agent
PEG-7 Glyceryl Cocoate	ROKAcet KO300G	0.50	surfactant
Lactic Acid		0.25	pH adjuster
PEG-120 Methyl Glucose Dioleate		0.50	thickener
Cocamidopropyl Betaine	ROKAmina K30	6.00	surfactant
Parfum		0.50	fragrance
Sodium Chloride		0.90	thickener
	Aqua  Sodium Laureth Sulfate  Sodium Lauroyl Sarcosinate  Sodium Benzoate, Potassium Sorbate  Glycerin  PEG-7 Glyceryl Cocoate  Lactic Acid  PEG-120 Methyl Glucose Dioleate  Cocamidopropyl Betaine  Parfum	Aqua  Sodium Laureth Sulfate SULFOROKAnol L227/1  Sodium Lauroyl Sarcosinate ROKAtend LS  Sodium Benzoate, Potassium Sorbate  Glycerin  PEG-7 Glyceryl Cocoate ROKAcet KO300G  Lactic Acid  PEG-120 Methyl Glucose Dioleate  Cocamidopropyl Betaine ROKAmina K30  Parfum	Aqua 71.85  Sodium Laureth Sulfate SULFOROKAnol L227/1 13.00  Sodium Lauroyl Sarcosinate ROKAtend LS 3.00  Sodium Benzoate, Potassium Sorbate 0.50  Glycerin 3.00  PEG-7 Glyceryl Cocoate ROKAcet KO300G 0.50  Lactic Acid 0.25  PEG-120 Methyl Glucose Dioleate ROKAmina K30 6.00  Parfum 0.50



APPEARANCE	visual method	transparent liquid
рН		4.8 - 5.3
VISCOSITY [cP]	Brookfield LV, spindle 34, speed 12 RPM, T: 25°C	1000 - 4000
STABILITY	1 month at 5°C, RT, 40°C	confirmed

#### **Procedure:**

- **1.** Combine ingredients from phase A. Add ingredients from phase A to water (55-60°C). Mix until uniform. Cool the batch down to at least 50°C.
- **2.** Add PEG-120 Methyl Glucose Dioleate during mixing. Mix until uniform. Cool the batch down to at least 30°C.
- **3.** Add Cocamidopropyl Betaine and Parfum during mixing. Mix until uniform.
- **4.** Add Sodium Chloride during mixing (Add small portions and dissolve).
- 5. If necessary, adjust pH by Lactic Acid to 4.8 5.3.

#### SHAMPOO FOR CHILDREN FROM 3 YEARS OLD [KD-37]

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	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
В	Ammonium Laureth Sulfate	SULFOROKAnol A325/1	30.00	surfactant
С	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
рН		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

#### **Procedure:**

- **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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#### **KIDS BODY MOUSSE [RD-09]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Sodium Cocoyl Isethionate		12.00	surfactant
A	Sodium Lauroyl Sarcosinate	ROKAtend LS	4.50	surfactant
A	Coco Betaine	ROKamina K30B	1.00	surfactant
Α	C12-15 Alkyl Benzoate	EXOsoft AB25	1.00	emollient
В	Glycerin		25.00	active
В	Sorbitol		10.00	active
В	Panthenol		1.00	active
С	Parfum		0.20	fragrance
С	CI17200	INCI	0.01	dye
D	Sodium Benzoate		0.50	preservative
D	Potassium Sorbate		0.30	preservative
E	Lactic Acid		0.30	pH adjuster
Α	Aqua		44.60	solvent



APPEARANCE	visual method	pink paste
рН		5.0 - 5.5
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### **Procedure:**

- **1.** Add ingredients from phase A to warm water (40-45°C). Mix until homogenous solution is obtained.
- 2. Cool the batch down to at least 35°C.
- **3**. Add phase B during mixing. Mix until homogenous solution is obtained.
- **4.** Add phase C-E ingredients while mixing mix until uniform.
- 5. Adjust pH by Lactic Acid to 5.0-5.5.

#### **ANTIPERSPIRANT [KD-155]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
Α	Aqua		80.00	solvent
	Hydroxypropyl Starch Phosphate		1.00	rheology modifier
В	Cetearyl Alcohol, Ceteareth-20	EXOcare TE20 Flakes	5.00	emulsifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	4.00	emollient
С	Aluminum Chlorohydrate		10.00	antiperspirant



APPEARANCE	visual method	white emulsion
рН		3.5 - 5.0
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### Procedure:

- **1.** In separate vessels combine ingredients from phase A and B. Homogenize phase A:1500-2000 RPM 90-120 s.
- 2. Heat phase A and B to 75-80°C.
- **3.** Add phase B to A while mixing. Homogenize: 1500-2000 RPM 90-120 s.
- 4. Cool batch down to 30°C while mixing.
- **5.** Add phase C ingredient while mixing. Homogenize: 1500-2000 RPM 90-120 s.

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#### **ANTIPERSPIRANT [KD-156]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
В	Ceteareth-25, Cetearyl Alcohol	EXOcare TE25 flakes	3.00	emulsifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	5.00	emollient
	Steareth-20	ROKAnol S20	3.00	emulsifier
С	Aluminum Chlorohydrate		15.00	antiperspirant
	Parfum		0.50	fragrance



APPEARANCE	visual method	white emulsion
рН		3.5 - 5.0
STABILITY	1 month at 5°C, 20°C, 40°C	confirmed

#### Procedure:

- **1.** In separate vessels combine ingredients from phase A and B. Homogenize phase A:1500-2000 RPM 90-120 s.
- 2. Heat phase A and B to 75-80°C.
- **3.** Add phase B to A while mixing. Homogenize: 1500-2000 RPM 90-120 s.
- 4. Cool batch down to 30°C while mixing.
- **5.** Add phase C ingredient while mixing. Homogenize: 1500-2000 RPM 90-120 s.

#### **ROLL ON FOR MEN [KD-155]**

PHASE	INCI NAME	BRAND NAME	CONCENTRATION [%]	FUNCTION
А	Aqua		up to 100	solvent
	Hydroxypropyl Starch Phosphate		1.00	rheology modifier
В	Ceteareth-25, Cetearyl Alcohol	EXOcare TE25 flakes	5.00	emulsifier
	PPG-15 Stearyl Ether	ROKAnol SP15 MB	4.00	emollient
С	Aluminum Chlorohydrate		10.00	antiperspirant



APPEARANCE	visual method	white emulsion
рН		3.5 - 5.0
STABILITY	1 month in 5°C, 20°C, 40°C	confirmed

#### Procedure:

- **1.** In separate vessel combine ingredients from phase A and B. Homogenize phase A 1500-2000 RPM 90-120 s.
- 2. Heat phase A and B to 75-80°C
- **3.** Add phase B to A while mixing. Homogenize: 1500-2000 RPM 90-120 s.
- 4. Cool batch down to 30°C while mixing.
- **5.** Add phase C ingredient while mixing. Homogenize: 1500-2000 RPM 90-120 s.

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