

A man and a young boy are shown shaving with shaving brushes. The man is on the left, smiling, with shaving foam on his face. The boy is on the right, looking down at his brush, also with shaving foam on his face. Both are wearing white t-shirts. The background is a soft, out-of-focus indoor setting.

**pcc**  
Exol

*Designed with  
the thought  
about you*

**EXOsoft PC35**

POTASSIUM COCOATE

## Description

- excellent foam capabilities
- bright color
- low odor
- naturally - derived
- preservative - free
- excellent choice for sulfate-free formulations
- can be mixed with other anionic, non-ionic or amphoteric surfactant
- primary/secondary surfactant

## Application

- shampoos
- bar soaps
- liquid hand soaps
- industrial hand soaps
- surgical scrub soaps
- hard surface cleaners



## EXOsoft PC35 POTASSIUM COCOATE

<b>Chemical name</b>	Fatty acids, potassium salts	
<b>INCI name</b>	Potassium Cocoate	
<b>CAS number</b>	61789-30-8	
<b>Function</b>	Thickener, emulsifier, foaming agent, cleansing agent, moisturizer	
<b>Technical requirements</b>	Appearance at temperature (20±25)°C	liquid
	Colour (Gardner units) at (20±25)°C	max. 3
	pH of 10% solution product	10.5 - 11.3
	Dry matter, %(m/m)	34 - 36
<b>General data</b>	Molecular weight, g/mol	260
	Solidification point, °C	approx. -5
	Viscosity at 25°C, cP	max. 100
	Density at 20°C, g/mL	approx. 1.03
	Preservative	none

## General guideline for EXOsoft PC35 usage

### How to use EXOsoft PC35 as a primary surfactant?

- recommended pH of the final formulation 9.0-10.0\*
- mix citric acid with water
- introduce EXOsoft PC35 while mixing
- add other anionic and nonionic surfactants while mixing
- add other additives: active substances, fragrance, preservatives
- introduce amphoteric surfactants during mixing
- it is recommended to adjust the viscosity to the required values with a Sodium Chloride solution

\* Some formulations require the pH value below 9.0. In such case it is impossible to obtain a clear product. The pH adjustment should be made by adding Citric Acid in range 0.5-0.8%.

### How to use EXOsoft PC35 as a secondary surfactant?

- recommended pH of the final formulation: 8.5-9.5
- mix EXOsoft PC35 with water
- add other anionic and nonionic surfactants while mixing
- add other additives: active substances, fragrance, preservatives
- introduce amphoteric surfactants during mixing
- adjust the pH to the required values with a solution of Citric Acid or Lactic Acid - use 10-20% solutions
- it is recommended to adjust the viscosity to the required values with a Sodium Chloride solution

### How to use EXOsoft PC35 in preparations where polymers/copolymers of acrylic acids are used?

- mix the rheology modifier (polymers/copolymers of acrylic acids) with water
- adjust the pH with solution of Sodium Hydroxide or Potassium Hydroxide to 7.0 - 7.5
- introduce anionic and nonionic surfactants while mixing
- introduce EXOsoft PC35 while mixing
- add other additives: active substances, fragrance, preservatives
- introduce amphoteric surfactants during mixing
- adjust the pH to the required values with a solution of Citric Acid (10 - 20%), Lactic Acid (10-20%), Sodium Hydroxide, Potassium Hydroxide.

## Shaving cream [KD-149]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Aqua		47.50	solvent
	Acrylates Copolymer		6.00	rheology modifier
B	Potassium Hydroxide		1.00	pH adjuster
C	<b>Ceteareth-25, Cetearyl Alcohol</b>	<b>EXOcare TE25 flakes</b>	<b>4.00</b>	<b>emulsifier</b>
	Palmitic Acid		1.00	rheology modifier
	Stearic Acid		1.00	rheology modifier
D	Magnesium Aluminum Silicate		1.00	rheology modifier
E	<b>Potassium Cocoate</b>	<b>EXOsoft PC35</b>	<b>14.00</b>	<b>surfactant</b>
	<b>Sodium Laureth Sulfate</b>	<b>SULFOROKAnol L227/1</b>	<b>13.00</b>	<b>surfactant</b>
	<b>Coco Betaine</b>	<b>ROKAmina K30B</b>	<b>10.00</b>	<b>surfactant</b>
	Phenoxyethanol, Ethylhexylglycerin		1.00	preservative
	Parfum		0.50	fragrance



- In a main vessel combine ingredients from phase A - mix until uniform. Add Potassium Hydroxide - mix until uniform.
- In a separate vessel combine ingredients from phase C. Heat the phase A and C up to 75-80°C (separately).
- Add phase C to A while mixing. Homogenize with 2500-3500 RPM, 90 sec. Add Magnesium Aluminum Silicate (phase D) - homogenize with 2500-3500 RPM, 90 sec.
- Prepare the remaining ingredients in separate beakers.
- Cool the batch down to 25°C while mixing. Add phase E ingredients while.

<b>APPEARANCE</b>	visual method	creamy emulsion
<b>pH</b>		7.5 – 8.5
<b>STABILITY</b>	1 month in 5°C, 20°C, 40°C	confirmed

## Shower gel [KD-107]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Aqua		67.00	solvent
	<b>Potassium Cocoate</b>	<b>EXOsoft PC35</b>	<b>16.00</b>	<b>surfactant</b>
	<b>Cocamide DEA</b>	<b>ROKAmid KAD</b>	<b>1.50</b>	<b>surfactant</b>
B	<b>Cocamidopropyl Betaine</b>	<b>ROKAmina K30K</b>	<b>7.00</b>	<b>surfactant</b>
C	Parfum		0.50	fragrance
D	Betaine		1.00	active
E	Sodium Chloride		2.00	thickener
	Aqua		5.00	solvent

<b>APPEARANCE</b>	visual method	transparent gel
<b>pH</b>		8.0 – 9.0
<b>VISCOSITY [cP]</b>	Brookfield LV, spindle 34, speed 2.5 RPM, T:25°C	min. 1000
<b>STABILITY</b>	1 month in 5°C, 20°C, 40°C	confirmed



- In a vessel combine ingredients from phase A - mix until uniform.
- Add ingredients from phase B-D while mixing - mix until uniform. In a separate vessel combine ingredients from phase E - mix until uniform.
- Add slowly phase E while mixing - mix until uniform.

## Shaving foam [KD-150]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Aqua		up to 100	solvent
	Glycerin		2.50	moisturising agent
	Pentylene Glycol		2.50	moisturising agent
	Allantoina		0.10	active
	<b>Potassium Cocoate</b>	<b>EXOsoft PC35</b>	<b>30.00</b>	<b>surfactant</b>
	<b>Cocamidopropyl Betaine</b>	<b>ROKAmina K30</b>	<b>5.00</b>	<b>surfactant</b>
	Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben		0.40	preservative

<b>APPEARANCE</b>	visual method	bright-yellow liquid
<b>pH</b>		8.5 – 10.0
<b>STABILITY</b>	1 month at 5°C, RT, 40°C	confirmed



1. In a main vessel combine all ingredients. Mix until uniform.



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