

ROKAmid MRZ4

PEG-4 RAPESEEDAMIDE

Description

- high concentration
- high performing and cost-effective thickening agent
- acts as a foam booster, strong solubilizer and emulsifier
- effective in both SLES-based and SLES-free formulations
- based on renewable rapeseed oil
- good biodegradability
- easy to handle due to its low viscosity
- can also be formulated at room temperature

Application

- shampoos
- · shower gels
- · hand soaps
- · shaving gels
- · hair styling preparations
- · hair dyes











ROKAmid MRZ4

PEG-4 RAPESEEDAMIDE

Chemical name	Rapeseed oil fatty acids monoethanolamide, ethoxylated		
INCI name	PEG-4 Rapeseedamide		
CAS number	85536-23-8		
Function	Thickening agent, foam booster, solubilzer, emulsifier		
Technical requirements	Appearance at temperature (20÷25)℃	liquid	
	pH of 1% solution	9.2 ÷ 10.2	
	Water, %(m/m)	6.5 ÷ 8.5	
	Color in Gardner scale (20÷25)°C	max. 5	
	Free MEA, %(m/m)	max. 1.4	
General data	Density at 25°C, g/mL	1.00	
	Solubility	dispersible	
	Solidification point, °C	approx. 0	

Make-up removing gel [KD-203]

Phase	INCI name	Brand name	Concentration [%]	Function
Α	Aqua		22.50	solvent
	Glycerin		0.30	solvent
В	Paraffinum Liquidum		2.40	emollient
	Cetearyl Alcohol	EXOalc 1618 flakes	1.80	thickener
	Ceteareth-20	ROKAnol T20	1.20	emulsifier
С	PEG-4 Rapeseedamide	ROKAmid MRZ4	4.00	surfactant
	Parfum		0.50	fragrance
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	Hexylene Glycol		3.00	solvent
D	Acrylates/C10-30 Alkyl Acrylate Crosspolymer		61.60	rheology modifier
	PPG-15 Stearyl Ether	ROKAnol SP15L	1.80	emollient
Е	Sodium Hydroxide		0.40	pH modifier

APPEARANCE visual method

pH

STABILITY 1 month in 5°C, 20°C, 40°C



- **1.** Add water and glycerin into the main vessel and heat up to 80°C while mixing.
- **2.** Combine ingredients from phase B in a separate vessel and heat up to 80°C and add to main vessel. Mix it until homogenous emulsion is obtained at 80°C.
- **3.** Cool the batch down to 60°C while mixing and homogenize with 3000 RPM for 1 min.
- **4.** Combine ROKAnol SP15 and Acrylates/C10-30 Alkyl Acrylate Crosspolymer and add into a main vessel. Homogenize with 3000 RPM, 60 sec.

white gel 6.0 - 6.5

confirmed

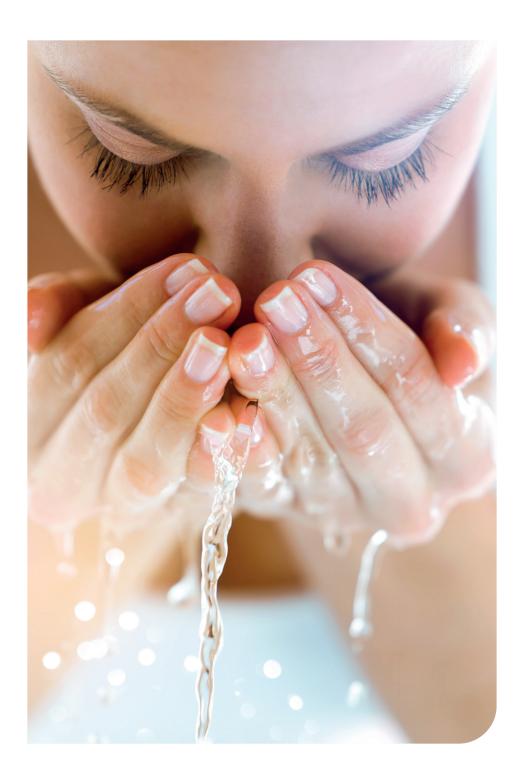
- **5.** At 40°C add gradually combined phase C and mix it.
- **6.** Add Sodium Hydroxide and homogenize with 3000 RPM for 30 sec. Cool down to 25°C.

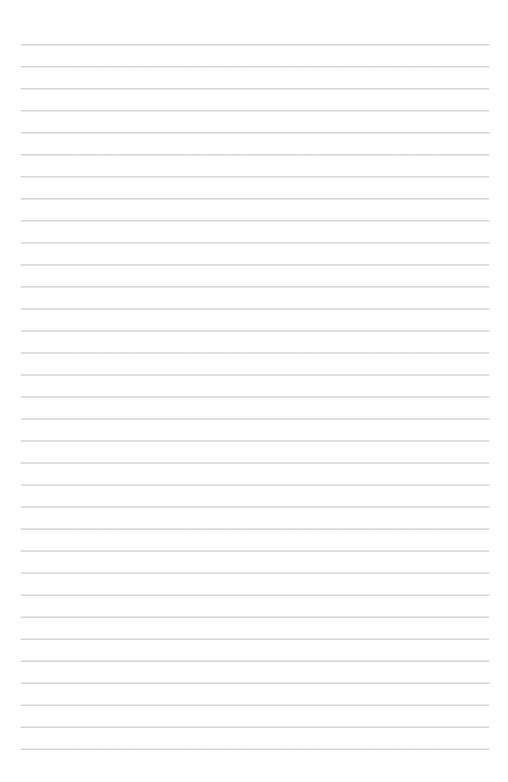
Micellar cleansing liquid [KD-205]

Phase	INCI name	Brand name	Concentration [%]	Function
Α	Aqua		81.00	solvent
	PEG-40 Hydrogenated Casto	r Oil ROKAcet HR40W	8.00	surfactant
	Parfum		0.20	fragrance
	Sodium Benzoate, Potassium Sorbate		0.50	preservative
	PEG-4 Rapeseedamide	ROKAmid MRZ4	4.00	surfactant
	Hexylene Glycol		6.00	solvent
	Citric Acid		0.30	pH adjuster
	APPEARANCE pH STABILITY	visual method 1 month in 5°C, 20°C, 40°C		transparent liquid 4.5 – 5.5 confirmed



1. Add all ingredients from phase A into one vessel and mix until homogenous solution is obtained.







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