



# ROKAmid MRZ4

PEG-4 Rapeseedamide

Local. Global. Integrated.

## Description

- high concentration
- 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, solubilizer, emulsifier	
Technical requirements	Appearance at temperature (20÷25)°C	liquid
	pH of 1% solution	8 ÷ 10
	Water, %(m/m)	6.5 ÷ 8.5
	Color in Gardner scale (20÷25)°C	max. 7
	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
A	Aqua	–	22.50	solvent
A	Glycerin	–	0.30	solvent
B	Paraffinum Liquidum	–	2.40	emollient
B	Cetearyl Alcohol	EXOalc 1618 flakes	1.80	thickener
B	Cetareth-20	ROKAnol T20	1.20	emulsifier
C	PEG-4 Rapeseedamide	ROKAmid MRZ4	4.00	surfactant
C	Parfum	–	0.50	fragrance
C	Sodium Benzoate, Potassium Sorbate	–	0.50	preservative
C	Hexylene Glycol	–	3.00	solvent
D	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	–	61.60	rheology modifier
D	PPG-15 Stearyl Ether	ROKAnol SP15L	1.80	emollient
E	Sodium Hydroxide	–	0.40	pH modifier

<b>Appearance</b>	visual method	white gel
<b>pH</b>		6.0 – 6.5
<b>Stability</b>	1 month in 5°C, 20°C, 40°C	confirmed

## Procedure:

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 SP15L and Acrylates/C10-30 Alkyl Acrylate Crosspolymer and add into a main vessel. Homogenize with 3000 RPM, 60 sec.
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
A	Aqua	–	81.00	solvent
A	PEG-40 Hydrogenated Castor Oil	ROKAcet HR40W	8.00	surfactant
A	Parfum	–	0.20	fragrance
A	Sodium Benzoate, Potassium Sorbate	–	0.50	preservative
A	PEG-4 Rapeseedamide	ROKAmid MRZ4	4.00	surfactant
A	Hexylene Glycol	–	6.00	solvent
A	Citric Acid	–	0.30	pH adjuster

<b>Appearance</b>	visual method	transparent liquid
<b>pH</b>		4.5 – 5.5
<b>Stability</b>	1 month in 5°C, 20°C, 40°C	confirmed

### Procedure:

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







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