

Water free shower and bath oils free of Cocamide DEA

- Shower oils free of water are established in the German cosmetic market and becoming more and more popular in the rest of Europe
 - This kind of formulations contain ca. 50% oil components and ca. 50% surfactants
 - Water free bath oils contain 75% to 90% oil components. The rest are surfactants
 - Some of them still contain Cocamide DEA
- There is a need in formulation concepts free of Cocamide DEA



Product introduction

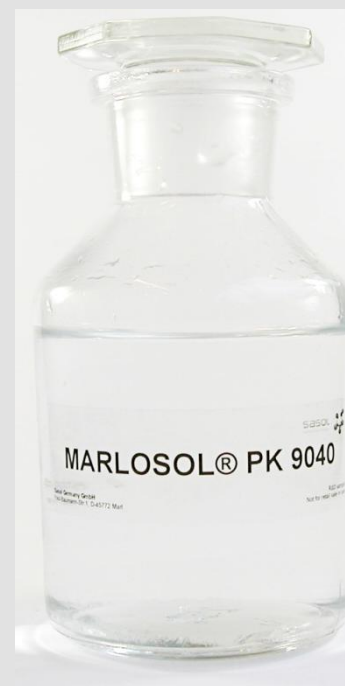
Product introduction (1/2)

- MARLINAT[®] 242/90 MC
 - INCI - Name: MIPA Laureth Sulfate (and) Propylene Glycol
- Properties:
 - Liquid, clear at 20°C
 - Easy to process at 20°C
 - High active matter: ca. 90% by wt.
 - High foaming power and stability
 - Low skin irritation potential
 - Free of water



Product introduction (2/2)

- MARLOSOL® PK 9040
 - INCI - Name: Laureth-4
- Properties:
 - Liquid, clear at 20°C
 - Colourless
 - Almost odourless
 - Free of water



A geological cross-section diagram showing three distinct layers. The top layer is a large, light orange area. Below it is a thinner, bright blue layer. The bottom layer is a light blue area. All three layers are separated by curved, wavy lines, suggesting geological strata. The text 'Concept for shower oils free of water' is written in a dark blue, italicized font across the bottom blue layer.

Concept for shower oils free of water

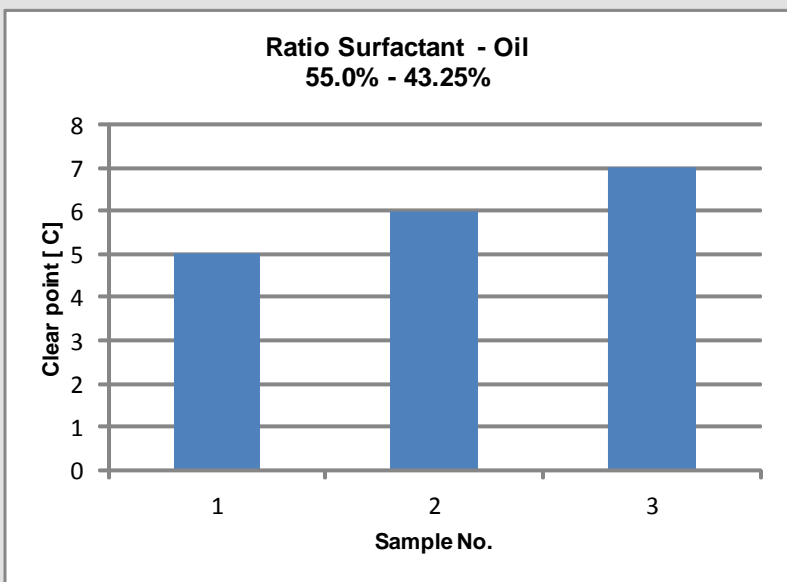
Concept for shower oils free of water (without Cocamide DEA - 1/2)



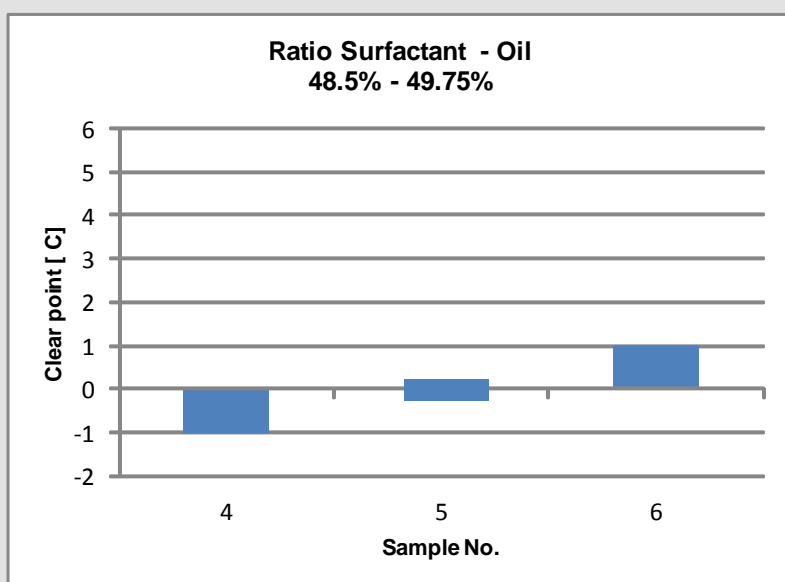
- Concentration of MARLINAT 242/90 MC:
 - 20% to 35%
- Concentration of MARLOSOL PK 9040:
 - 20% to 35%
- The amount of MARLOSOL PK 9040 should be a bit higher than the amount of MARLINAT 242/90 MC to achieve a low clear point
- Concentration of oil:
 - 30% to 60%
- Antioxidant, dye, fragrance etc.

Concept for shower oils free of water (without Cocamide DEA - 2/2)

Sample No.	1	2	3
MARLINAT 242/90 MC	21.00	25.00	29.00
MARLOSOL PK 9040	34.00	30.00	26.00
Soybean-, Castor-, Jojoba oil	43.25		
Rest (Perfume, Tocopherol, ...)	q.s.		



Sample No.	4	5	6
MARLINAT 242/90 MC	18.00	22.00	26.00
MARLOSOL PK 9040	30.50	26.50	22.50
Soybean-, Castor-, Jojoba oil	49.75		
Rest (Perfume, Tocopherol, ...)	q.s.		



- Rule: The higher the amount of MARLOSOL PK 9040, the lower the clear point!



Concept for bath oils free of water

Concept for bath oils free of water (without Cocamide DEA)



- Concentration of MARLINAT 242/90 MC:
 - 5% to 15%
- Concentration of MARLOSOL PK 9040:
 - 5% to 15%
- The amount of MARLOSOL PK 9040 should be a bit higher than that of MARLINAT 242/90 MC to achieve a low clear point
- Concentration of oil component:
 - 70% to 90%
- Antioxidant, dye, fragrance etc.
- The addition of COSMACOL NII9 (INCI:C12-13 Pareth-9) results in a “blooming effect”

Guideline formulation for a bath oil free of water

No.: 0852_01_304ak_1

Phase	Trade name	*)	INCI Name	Weight [%]	Function
	MARLINAT® 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	10.0	Base surfactant / high foaming power
	MARLOSOL® PK 9040	1	Laureth-4	13.0	Nonionic surfactant, mild odour
	COSMACOL® NII9	18	C12-13 Pareth-9	3.0	Solubilizing agent/emulsifier
	Castor oil	32	Castor oil	7.0	Natural oil
	Soya oil	32	Glycine Soja (Soybean) Oil	Add to 100	Natural oil
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Oil	2.0	Natural oil
	Sunflower oil	32	Sunflower oil	18.0	Natural oil
	Tocopherol	9	Tocopherol	q.s.	Antioxidant
	Lactic acid		Lacitic acid	q.s.	Moisturizing agent
	Perfume "Care"	27	Parfum (EU)/ Fragrance (US)	q.s.	

*) supplier

Preparation (at room temperature):

Homogenise the components in the above given order while stirring continuously.

Suppliers:

Sasol Germany GmbH (1), Merck KGaA (9), Acros Organics (26), drom fragrances (27), Gustav Heess GmbH (32)



Summary

Summary



- Based on MARLINAT 242/90 MC and MARLOSOL PK 9040 shower and bath oils free of Cocamide DEA with a low clear point can be obtained
- Free choice of oil composition
- Easy to produce

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Thank you!