

Customer focused, innovate now and be enterprising

BRB Silicones, a business unit of BRB International B.V., is a producer of specialty silicones supplying to multi discipline of industries.





Established in 1981, headquartered in the south of the Netherlands, BRB International B.V. has created an effective worldwide supply chain network with offices and warehouses in the UK, Poland, South Africa, United States, Canada, Malaysia, China, Singapore, Turkey, Dubai and South Korea.

Our manufacturing sites are located in Europe, North America and Asia.

As a subsidiary of PETRONAS Chemicals Group Berhad, BRB now has even greater global presence and innovation resources.

Product range

The product range includes emulsions, antifoams, water repellants, elastomers, lubricants, silanes, resins, dimethicone & cyclomethicone blends, dimethicone copolyols, crosspolymers and customised products.

BRB Silicones also supplies a very broad range of core and specialty intermediates with an exceptional combination of product supply regularity and competitive pricing. BRB Silicones enjoys continuous growth thanks to its flexibility and customisation capabilities.

Our commitments in the personal care market

The personal care market is a strategic market for BRB Silicones and we constantly invest in people and equipment to support our commitments to this industry.

Our continuously expanding range consists of a balanced mix of well-established large commodity products and smaller performant specialty silicones.

Our increasing technical service team is supporting our customers with new trendy formulations to support today's challenge of innovative, performant and cost effective formulations.

Silicones continuously gained popularity in personal care applications due to their capacity to develop more performant and attractive formulations. Benefits often obtained with small amount of silicones. This is the power of smart ingredients.

Silicone chemistry

Silicones contain up to 60% silicon and oxygen, the most widespread elements in the earth's crust.

Because they are chemically inert and safe ingredients, silicones are used in the most exigent markets such as pharmaceutical, medical devices, personal lubricants and food with no evidence of unsafety or toxicity.

Silicones gained a huge popularity since their first introduction in personal care formulations in 1970's and are in the meantime present in every second new formulation launched.

With their enhanced performance, compatibility with other ingredients and unequal sensory, silicones are valuable for formulators and consumers to obtain performant and innovative formulations.



Silicones are the best unbeatable conditioners for hair care

Silicone technology is known to offer pre-eminent multifunctional conditioning effects for all hair types.

These materials deliver unparalleled detangling, unique softness and excellent shine effects. They are the go-to technology to rejuvenate damaged hair, treat dryness, restore cuticle integrity, improve hair strength and protect from the effects of styling heat treatments.
They are able to reduce flyaway problems, improve texture, minimise unwanted frizz effects and impart excellent color protection.

Silicones are easily formulated not to accumulate allowing a highly desirable non-greasy, silky touch. Our portfolio of silicones can meet all your hair treatment needs.

Benefits

- Supreme conditioning
- Softness / silkiness
- Ease of detangling
- Dry combing force reduction Wet combing force reduction
- Thermal protection
- Color protection
- Frizz & flyaways reduction
- Volume
- Cuticle sealers
- Prevent hair breakage
- Reduce dry time

Applications

- Rinse off and leave on conditioners

Hair dye

Shine

control whipped cream (not treated)

Thermal protection

BRB 5446 protects preventing cuticle

at 230°C

Color protection

Visible results

after 15 cycles

of washing, conditioning

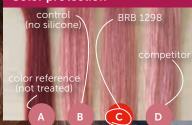
and styling using a

shampoo and

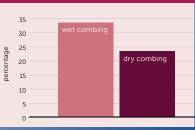
conditioner

with 5.0%

BRB 1298

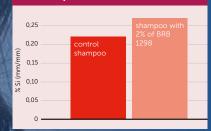


Combing force reduction



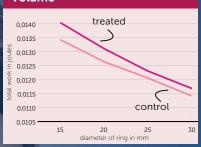
Shampoo and conditioner containing BRB 5446 shows a wet combing force reduction of 34% and dry combing force reduction of 24%, compared to control shampoo and conditioner

Build-up effect



BRB 1298 shampoo does not present significant build-up effect compared to control shampoo

Volume



The ring method for evaluation of tress volume. Shiner whipped cream (leave-in) which contains 3% of BRB 5834 compared with its control

Silicones can create a breathable shield which protects from external aggressions

Silicones deliver a flawless, highly desirable sensory effect which is silky smooth and velvety.

In AP/DEO formulations they impart an important tack-free, anti-whitening character together with non-cooling, rapid drying. Silicone's unique lubricity is important to uniformly spread and level the broadest spectrum of actives and UV filters in modern skincare systems.

They can form a powerful water resistant shield to protect skin from external aggressions, whilst simultaneously allowing pores to breath.

Besides creating innovative and luxury textures, they have an important role delivering immediate soft focus effects. masking wrinkles and skin imperfections.

Benefits

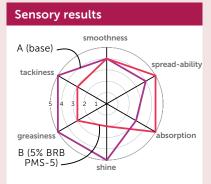
- Softness / silkiness
- Anti-whitening
- Moisturizing
- Thickening aid / texturizing agents
- Enhance spreading • Reduce tackiness
- Water resistance
- Emulsifier
- Reduce dry time
- Soft focus & mattifying effect
- Wrinkle / imperfection masking
- Anti-pollution shield

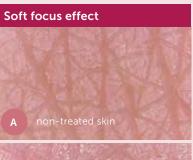
Application

- Moisturizers
- Cleansers, scrubs
- Body wash and shower gel
- Face and body treatments
- Face and body masks
- Eve care
- Sun care
- Self tanners
- Lip treatments
- Wet wipes
- Men care
- AP DEO
- Baby care
- Hair removal and shaving

Good for

- Sensitive skin
- Acne treatments
- Oil free formulas
- Hypoallergenic applications









Immediate visibly reduction of fine lines and wrinkles. Skin close-up

(x 1000)



care



Color cosmetics

Silicones disperse pigments and tints, delivering uniform coverage and color homogeneity. They ensure a long lasting color fixation effect with zero bleed and transfer issues.

They reduce a cosmetic's drying time and can be formulated to achieve water resistance, with limitless possibilities to impart gloss, sheen or matt effects. Silicones allow unparalleled wear comfort, eliminating the heaviness often associated with pigments or other additives, thereby improving final sensory.

Benefits

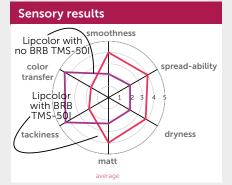
- Softness / silkiness
- Gloss
- Pigment spreading enhancers
- Prevent pigment agglomeration
- Transfer resistance / long lasting
- Moisturizina
- Thickening aid / texturizing age
- Emulsifie
- Soft focus & mattifying effect
- Wrinkle / Imperfection masking
- Reduce tackiness
- Reduce dry time
- Anti-pollution shi
- Water resistance

Applications

- Foundations, BB & CC creams, tinted moisturizers
- Face primers
- Concealers and color correctors
 - Setting sprays
 - Powders
 - Highlighters and contours
 - Cheek blushers and bronzers
 - Eveliners, evepencils
 - Eye mascaras and eye shadows
 - Lipsticks, lipgloss, lipstains, lip plumpers, lip liners
 Nail polishes, nail base & top coats,
 - Nail polishes, nail base & top coats, nail dryers and treatments

reduce transfer rate by 96% with BRB TMS-50I 0.166667 0.066667 0.033333 0 sample B

No color transfer. Reduction of transfer effect after 10 min. Sample A: lipcolor with no BRB TMS-50I. Sample B: lipcolor with 30% BRB TMS-50I



Sensory results: Smoothness, good spreadability, matt result, reduce dry time, reduce tackiness

★ suited

- * well suited
- 🛧 optimal suit

Product selector

l lain	app	licati	ons			b	enefit	s		
Hair care	hampoo			Wet / dry combing	Softness	ne	Volume	hermal protection	Color protection	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BRB product	Sha			Wei	Sof	Shine		F	S	į
Volatile fluids										
CM 40, CM 50, CM 56-S, CM 60		•	•	*	*					,
DM 0.65, DM 1, DM 1.5, DM 2		-	•	*	*					,
DM 55, DM 66, 1417		-	•	*	*					*
Dimethicone fluids										
DM 3 - 20		•		*	***					
DM 50 - 1000		-	•	*	*					
DM 5000 - 100000			•	*		*	*			,
Phenyl modified silicones										
PTM 20					*	***				*
Gum blends										
1735, 1744, 1755			•	*	***	*		*		*
1834, 1844, 1934				*	***	*		*		*
1736, 1740, 1860			•	*	***	*		*		*
1819			•	*	***	*		*		*
1859				*	***	*		*		*
1861			•	*	***	*		*		*
Silicone copolyols										
526				*	*		*			
423			•							
6340, 6341					*					
6373										
Silicone emulsions										
9719				*	*					
1018				*	*	*				*
1288, 1292			•	*				*	*	
5446			•	***	*			***	**	
5834				***		***	***			
Amodimethicones										
SF 240, SF 430				*	*				**	*
SF 242				***	***	***		***	**	4
Alkyl dimethicones										
2835					*	*		*		*
Caprylyl Methicone						*				
2836						*		*		*
Silicone resins										
TMS, TMS-50C, TMS-50I, TMS-30D								*		*

Claire		applic	ations					b	enefit	s			
Skin care	ace / body				Moisturizing	Softness	Anti whitening	hickening aid	Enhance spreading	Reduce tackiness	Emulsifier	Reduce dry time	Water resistance
BRB product	Faci				Moi	Soft	Anti		En	Red	Ē	Red	Wat
Volatile fluids													
CM 40, CM 50, CM 56-S, CM 60			-			*	*		*	*		***	
DM 0.65, DM 1, DM 1.5, DM 2						*	*		*	*		***	
DM 55, DM 66, 1417						*	*		*	*		***	
Dimethicone fluids													
DM 3 - 20						*	*		*	*		*	
DM 50 - 500	-		•			*	*		*	*			
DM 1000 - 5000			•		*	*	*		*	*		*	
Phenyl modified silicones PTM 20													
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Gum blends 1735, 1744, 1755		_	_	_									
1735, 1744, 1755 1834, 1844, 1934				-		*			*				*
1834, 1844, 1934 1736, 1740, 1860						*			*				*
1819	•					*			*				*
1859			H			<u>*</u>			*				*
1861			H	H		*			*				*
Crosspolymers				•		*			*				×
SG 106, SG 116, SG 117						**		*	**	ž			*
SG 506, SG 516, SG 517						**		<u>*</u>	**	*			*
SG 210						**		**	** *	<u>*</u>			*
SG 250						**		**	*	<u>*</u>			<u>*</u>
Silicone copolyols						^ ^		^ ^	^				Ŷ
523						*	*		*	*	*		
526							*		*		***		
423									*		***		
6340, 6341									*		*		
6373									*		***		
Silicone emulsions													
9719						*			*	*			
Alkyl dimethicones													
2835					*	*	*		*	*			*
Caprylyl Methicone	-		-		*	**	*		***				*
2836	-				*			*					***
Silicone resins													
PMS-2, PMS-5						**		*	***	**			
TMS-50I, TMS-50C, TMS-30D					*								***

Anhydrous products	B B Powders	** ** * * Softness / silkiness	* ** **	* * * * bigment spreading	Transfer resistance	Emulsifier
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Product overview

BRB product INCI

DKD product	INCI		
Volatile fluids	Fast evaporation solvents and light emollients	Viscosity (cSt)	Refractive index
CM 40	Cyclotetrasiloxane	2.4	1.394
CM 50	Cyclopentasiloxane	4	1.397
CM 56-S	Cyclopentasiloxane (and) Cyclohexasiloxane	6	1.398
CM 60	Cyclohexasiloxane	6.8	1.402
DM 0.65	Disiloxane	0.65	1.375
DM 1	Trisiloxane	1	1.382
1417	Dimethicone (and) Trisiloxane	1.5	1.389
DM 1.5	Dimethicone	1.5	1.387
DM 2	Dimethicone	2	1.389
DM 55	Dimethicone	3.3	1.394
DM 66	Dimethicone	6	1.395
Dimethicone fluids	Soft emollients for the right spreadability	Viscosity (cSt)	Refractive index
DM 3	Dimethicone	3	1.392
DM 5	Dimethicone	5	1.396
DM 6	Dimethicone	6	1.397
DM 10	Dimethicone	10	1.399
DM 20	Dimethicone	20	1.400
DM 50	Dimethicone	50	1.402
DM 100	Dimethicone	100	1.403
DM 200	Dimethicone	200	1.403
DM 350	Dimethicone	350	1.403
DM 500	Dimethicone	500	1.403
DM 1000	Dimethicone	1,000	1.403
DM 5000	Dimethicone	5,000	1.403
DM 10000	Dimethicone	10,000	1.403
DM 12500	Dimethicone	12,500	1.403
DM 30000	Dimethicone	30,000	1.403
DM 60000	Dimethicone	60,000	1.403
DM 100000	Dimethicone	100,000	1.404
Phenyl modified silicones	Enhance gloss with good pigment compatibility	Viscosity (cSt)	Refractive index
PTM 20	Phenyl Trimethicone	22.5	1.460
Gum blends	Excellent conditioners with silky touch	Viscosity (cSt)	Gum (%)
1735	Cyclopentasiloxane (and) Cyclotetrasiloxane (and) Dimethiconol	5,500	14
1744	Cyclotetrasiloxane (and) Dimethiconol (and) Cyclopentasiloxane	7,500	18
1755	Cyclotetrasiloxane (and) Cyclopentasiloxane (and) Dimethiconol	7,500	16
1834	Cyclopentasiloxane (and) Dimethiconol	6,000	15
1844	Cyclopentasiloxane (and) Dimethicone	6,000	15
1934	Cyclopentasiloxane (and) Dimethiconol	10,000	15
1736	Dimethicone (and) Dimethiconol	4,000	13
1740	Dimethicone (and) Dimethiconol	1,500	12
1860	Dimethicone (and) Dimethiconol	4,500	15
1819	Dimethicone	3,300	14
			22
1859	C11-13 Isoparaffin (and) Dimethicone	11,000	22

BRB	product	IN	Ċ

Velvety, powdery and mattifying touch	Viscosity (Cst)	Cross-polymer (%)	
Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	30,000	11	
Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	55,000	12	
Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	10,000	6	
Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	30,000	14	
Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	30,000	11	
Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	10,000		
Cyclopentasiloxane (and) Dimethicone Crosspolymer	450,000	<12	
Dimethicone (and) Dimethicone Crosspolymer	400,000	<20	
Cold processable emulsifiers/ co-emulsifiers for long stability emulsions	Viscosity (cSt)	Calculated HLB	Water solubility
PEG/PPG-18/18 Dimethicone	2,000	8	Yes
PEG-12 Dimethicone	300	13	Yes
Cetyl PEG/PPG-10/1 Dimethicone	1,250	5	No
PEG-10 Dimethicone	600	4.5	No
Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone	30	2	No
Supreme conditioners for hair care	Emulsifier type	Particle size (µm)	Silicone (%)
Dimethicone (and) Laureth-4 (and) Laureth-23 (and) Salicylic Acid	Non-ionic	<1*	50
Dimethiconol (and) TEA-dodecylbenzenesulfonate	Anionic	0.6*	60
Amodimethicone (and) Trideceth-12 (and) Cetrimonium chloride	Cationic	<1*	35, 50
Silicone Quaternium-17 (and) Trideceth-7 (and) Trideceth-5	Non-ionic	<0.1**	15
Phenyl Trimethicone (and) Laureth-4 (and) Silicone Quaternium-17 (and) Laureth-23	Non-ionic	<0.1**	17
High stability oils for hair dyed protection	Viscosity (cSt)	N content (%)	
High stability oils for hair dyed protection Amodimethicone			
	(cSt)	(%)	
Amodimethicone	(cSt) 4,000	(%) 0.2	
Amodimethicone Amodimethicone	(cSt) 4,000 3,000	0.2 0.4	
Amodimethicone Amodimethicone Bis-Hydroxy/Methoxy Amodimethicone	(cSt) 4,000 3,000 5,000 Viscosity	0.2 0.4 0.18 Refractive	
Amodimethicone Amodimethicone Bis-Hydroxy/Methoxy Amodimethicone Organic compatible emollients with unique sensory	(cSt) 4,000 3,000 5,000 Viscosity (cSt)	0.2 0.4 0.18 Refractive	
Amodimethicone Amodimethicone Bis-Hydroxy/Methoxy Amodimethicone Organic compatible emollients with unique sensory Cetyl Dimethicone	(cSt) 4,000 3,000 5,000 Viscosity (cSt) 45	0.2 0.4 0.18 Refractive index 1.440	
Amodimethicone Amodimethicone Bis-Hydroxy/Methoxy Amodimethicone Organic compatible emollients with unique sensory Cetyl Dimethicone Caprylyl Methicone	(cSt) 4,000 3,000 5,000 Viscosity (cSt) 45 3	0.2 0.4 0.18 Refractive index 1.440	
Amodimethicone Amodimethicone Bis-Hydroxy/Methoxy Amodimethicone Organic compatible emollients with unique sensory Cetyl Dimethicone Caprylyl Methicone Stearyl Dimethicone (and) Octadecene	(cSt) 4,000 3,000 5,000 Viscosity (cSt) 45 3 100 Particle size	(%) 0.2 0.4 0.18 Refractive index 1.440 1.413 1.447 Resin	
Amodimethicone Amodimethicone Bis-Hydroxy/Methoxy Amodimethicone Organic compatible emollients with unique sensory Cetyl Dimethicone Caprylyl Methicone Stearyl Dimethicone (and) Octadecene Mattifying and soft focus powder agents	(cSt) 4,000 3,000 5,000 Viscosity (cSt) 45 3 100 Particle size (µm)	(%) 0.2 0.4 0.18 Refractive index 1.440 1.413 1.447 Resin (%)	
Amodimethicone Amodimethicone Bis-Hydroxy/Methoxy Amodimethicone Organic compatible emollients with unique sensory Cetyl Dimethicone Caprylyl Methicone Stearyl Dimethicone (and) Octadecene Mattifying and soft focus powder agents Polymethylsitsesquioxane	(cSt) 4,000 3,000 5,000 Viscosity (cSt) 45 3 100 Particle size (µm) 2	(%) 0.2 0.4 0.18 Refractive index 1.440 1.413 1.447 Resin (%) 100	Resin (%)
Amodimethicone Amodimethicone Bis-Hydroxy/Methoxy Amodimethicone Organic compatible emollients with unique sensory Cetyl Dimethicone Caprylyl Methicone Stearyl Dimethicone (and) Octadecene Mattifying and soft focus powder agents Polymethylsilsesquioxane Polymethylsilsesquioxane	(cSt) 4,000 3,000 5,000 Viscosity (cSt) 45 3 100 Particle size (µm) 2 5 Viscosity	(%) 0.2 0.4 0.18 Refractive index 1.440 1.413 1.447 Resin (%) 100 100 Refractive	
Amodimethicone Amodimethicone Bis-Hydroxy/Methoxy Amodimethicone Organic compatible emollients with unique sensory Cetyl Dimethicone Caprylyl Methicone Stearyl Dimethicone (and) Octadecene Mattifying and soft focus powder agents Polymethylsilsesquioxane Polymethylsilsesquioxane Long lasting emollients and water repellents	(cSt) 4,000 3,000 5,000 Viscosity (cSt) 45 3 100 Particle size (µm) 2 5 Viscosity (cSt)	(%) 0.2 0.4 0.18 Refractive index 1.440 1.413 1.447 Resin (%) 100 100 Refractive index	(%)
Amodimethicone Amodimethicone Bis-Hydroxy/Methoxy Amodimethicone Organic compatible emollients with unique sensory Cetyl Dimethicone Caprylyl Methicone Stearyl Dimethicone (and) Octadecene Mattifying and soft focus powder agents Polymethylsilsesquioxane Polymethylsilsesquioxane Long lasting emollients and water repellents Trimethylsiloxysilicate	(cSt) 4,000 3,000 5,000 Viscosity (cSt) 45 3 100 Particle size (µm) 2 5 Viscosity (cSt)	(%) 0.2 0.4 0.18 Refractive index 1.440 1.413 1.447 Resin (%) 100 100 Refractive index	100
Amodimethicone Amodimethicone Bis-Hydroxy/Methoxy Amodimethicone Organic compatible emollients with unique sensory Cetyl Dimethicone Caprylyl Methicone Stearyl Dimethicone (and) Octadecene Mattifying and soft focus powder agents Polymethylsilsesquioxane Polymethylsilsesquioxane Long lasting emollients and water repellents Trimethylsiloxysilicate Cyclopentasiloxane (and) Trimethylsiloxysilicate	(cSt) 4,000 3,000 5,000 Viscosity (cSt) 45 3 100 Particle size (µm) 2 5 Viscosity (cSt) - 200	(%) 0.2 0.4 0.18 Refractive index 1.440 1.413 1.447 Resin (%) 100 100 Refractive index - 1.405	(%) 100 50
	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer Cyclopentasiloxane (and) Dimethicone Crosspolymer Dimethicone (and) Dimethicone Crosspolymer Cold processable emulsifiers/ co-emulsifiers for long stability emulsions PEG/PPG-18/18 Dimethicone PEG-12 Dimethicone Cetyl PEG/PPG-10/1 Dimethicone Cetyl PEG/PPG-10/1 Dimethicone Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone Dimethicone (and) Laureth-4 (and) Laureth-23 (and) Salicylic Acid Dimethiconol (and) TEA-dodecylbenzenesulfonate Amodimethicone (and) Trideceth-12 (and) Cetrimonium chloride Silicone Quaternium-17 (and) Trideceth-5 Phenyl Trimethicone (and) Laureth-4 (and) Silicone Quaternium-17	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer Cyclopentasiloxane (and) Dimethicone Crosspolymer Dimethicone (and) Dimethicone Crosspolymer Cold processable emulsifiers/ co-emulsifiers for long stability emulsions PEG/PPG-18/18 Dimethicone Cotyl PEG/PPG-10/1 Dimethicone Cetyl PEG/PPG-10/1 Dimethicone Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone 30 Supreme conditioners for hair care Dimethicone (and) Laureth-4 (and) Laureth-23 (and) Salicylic Acid Non-ionic Dimethicone (and) Trideceth-12 (and) Cetrimonium chloride Cationic Silicone Quaternium-17 (and) Trideceth-7 (and) Trideceth-5 Non-ionic	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer Dimethicone (and) Dimethicone Crosspolymer Cyclopentasiloxane (and) Dimethicone Crosspolymer Dimethicone (and) Dimethicone Crosspolymer Cold processable emulsifiers/ co-emulsifiers for long stability emulsions PEG/PPG-18/18 Dimethicone Cotyl PEG/PPG-10/1 Dimethicone Dimethicone Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone Dimethicone (and) Laureth-4 (and) Laureth-23 (and) Salicylic Acid Non-ionic Non-ionic Non-ionic Non-ionic Col.** Phenyl Trimethicone (and) Laureth-4 (and) Silicone Quaternium-17 (and) Laureth-23 (and) Salicylone Quaternium-17 (and) Laureth-23 (and) Silicone Quaternium-17 (and) Laure

^{*}Macroemulsion

^{**}Microemulsion



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