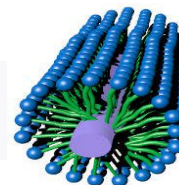


# EMULSIFIER & SOLUBILIZERS



Function		HLB	Trade Name	INCI Name	Properties	
O/W and W/O co-emulsifier	Dispersants of solids in oil	Defoamers	1,0	<b>SURFHOPE C-2101</b>	Sucrose erucate	Very stable W/O emulsions, can be used to obtain HLB.
			1,0	<b>SURFHOPE C-1201</b>	Sucrose laurate	Can modify the crystalline structure of solid triglycerides with useful benefits to the physical properties of the product.
			1,0	<b>SURFHOPE C-1701</b>	Sucrose oleate	W/O co-emulsifier.
			1,0	<b>SURFHOPE C-1601</b>	Sucrose palmitate	Forms exceptionally heat stable emulsions.
			1,0	<b>SURFHOPE C-1800</b>	Sucrose stearate	Forms liquid crystal structures in aqueous solutions.
			1,0	<b>SURFHOPE C-1801</b>	Sucrose stearate	Forms liquid crystal structures in aqueous solutions.
			2,0	<b>SURFHOPE C-2102</b>	Sucrose erucate	Very stable water in oil emulsions, can be used to obtain HLB.
			2,0	<b>SURFHOPE C-1802</b>	Sucrose stearate	Forms liquid crystal structures in aqueous solutions.
			3,0	<b>RYOTO B-70D</b>	Decaglycerol behenate	Rich skin feel emulsifier.
			3,0	<b>SURFHOPE C-2203</b>	Sucrose behenate	Very mild, non-ionic emulsifier.
			3,0	<b>SURFHOPE C-1803</b>	Sucrose stearate	Forms liquid crystal structures in aqueous solutions.
			W/O Emulsifier		4,0	<b>RYOTO B-100D</b>
4,7	<b>SORBITAN STEARATE</b>	Sorbitan stearate			Co-stabilizer for Inutec SP1, Neocare SC15, Neocare CG90, Polysorbate-60.	
4,9	<b>STEARETH-2</b>	Steareth-2			Used in combination with steareth-21 for milk or cream emulsions. Salt, acid and alkaline stable.	
5,0	<b>RYOTO ER-60D</b>	Decaglycerol erucate			W/O emulsifier.	
5,0	<b>SURFHOPE C-1205</b>	Sucrose laurate			Modifies the crystalline structure of solid triglycerides with useful benefits to the physical properties of the product	
5,0	<b>SURFHOPE C-1805</b>	Sucrose stearate			Forms liquid crystal structures in aqueous solutions.	
5,3	<b>CETARETH-2</b>	Cetareth-2			Combined with cetareth-12, or cetareth-12 and -20 to form spray, milks and creams.	
5,5	<b>NEOCARE PHS</b>	PEG-30 Dipolyhydroxystearate			Stable W/O milks and creams	
5,5	<b>NEOCARE PHSL</b>	C12-15 Alkyl Benzoate, PEG-30 Dipolyhydroxystearate			Cold processable; W/O milks and creams.	
6,5	<b>LAURETH-2</b>	Laureth-2			For bath oils (to disperse non-polar oils, with blooming effect), for shampoos (thickener, foam reducer).	
6,5	<b>OLETH-2</b>	Oleth-2			Co-emulsifier for micro-emulsions, allows bath powders dispersion.	
6,7	<b>SORBITAN PALMITATE</b>	Sorbitan palmitate			Co-stabilizer for Inutec SP1, Neocare CG90, Polysorbate-40.	
7,0	<b>RYOTO O-50D</b>	Decaglycerol oleate			For bath oils.	
7,0	<b>SURFHOPE C-1807</b>	Sucrose stearate			Forms liquid crystal structures in aqueous solutions.	
O/W emulsifier	Wetting agent	8,0			<b>INUTEC SP1</b>	Inulin lauryl carbamate
		8,0	<b>LAURETH-3</b>	Laureth-3	For bath oils (to disperse medium oils as vegetable oils, with blooming effect), thickener for hair-and skincare products.	
		8,3	<b>SORBITAN OLEATE</b>	Sorbitan oleate	W/O co-emulsifier.	
		8,5	<b>PEG-4 STEARATE</b>	PEG-4 Stearate	Forms very stable emulsion for difficult application with salts, acids.	
		8,6	<b>SORBITAN LAURATE</b>	Sorbitan laurate	Co-stabilizer for acrylates (avoids oil separation).	
		9,0	<b>RYOTO ER-30D</b>	Decaglycerol erucate	For bath oils.	

Function	HLB	Trade Name	INCI Name	Properties
O/W emulsifier	Wetting agent	9,0 <b>RYOTO S-28D</b>	Decaglycerol stearate	Natural O/W emulsifier.
		9,0 <b>SURFHOPE C-1809</b>	Sucrose stearate	Forms liquid crystal structures in aqueous solutions.
		9,4 <b>LAURETH-4</b>	Laureth-4	For bath oils (to disperse polar oils as castor oil, PPG-15 stearyl ether, with blooming effect).
		9,8 <b>PEG-6 STEARATE</b>	PEG-6 Stearate	Forms very stable emulsion for difficult application with salts, acids.
		9,8 <b>NEOCARE SLPL</b>	Sorbitan Laurate, Polyglyceryl-10 Laurate	Cold processable; O/W milks
		10,0 <b>SABOWAX CS 6</b>	Ceteareth-6, Stearyl alcohol	Combined with ceteareth-25.
		10,0 <b>RYOTO S-24D</b>	Decaglycerol stearate	Natural O/W emulsifier.
		10,0 <b>OLETH-5</b>	Oleth-5	Produces ultrafine dispersed emulsions, solubilizer for essential oils and active ingredients.
		11,0 <b>RYOTO SWA-20D</b>	Decaglycerol stearate	Prevents creaming.
		11,0 <b>NEOWAX FL 65</b>	Glyceryl stearate, PEG-100 Stearate	Non-polar systems compatible; increases stability, gives substantive touch. Universal emulsifier.
	Solubilizer	11,0 <b>PEG-8 STEARATE</b>	PEG-8 Stearate	O/W nonionic emulsifier, suitable for creams and lotion
		11,0 <b>NEOCARE CG90</b>	Cetearyl glucoside	Natural emulsifier for creams and lotions.
		11,0 <b>SURFHOPE C-1811</b>	Sucrose stearate	Forms liquid crystal structures in aqueous solutions.
		12,5 <b>LAURETH-8</b>	Laureth-8	Allows adding the hydrophilic substance into lipophilic medium (water soluble colorant in oil).
		12,8 <b>LAURETH-9</b>	Laureth-9	Allows adding the hydrophilic substance into lipophilic medium (water soluble colorant in oil). Anaesthetic effect.
		13,0 <b>CETEARETH-12</b>	Ceteareth-12	Combined with ceteareth-2, or ceteareth-2 and -20 to form spray, milks and creams.
		13,0 <b>RYOTO O-15D</b>	Decaglycerol oleate	Natural HLB corrector.
		13,0 <b>RYOTO SWA-15D</b>	Decaglycerol stearate	Co-emulsifier.
		13,0 <b>LAURETH-10</b>	Laureth-10	Allows adding the hydrophilic substance into lipophilic medium (water soluble colorant in oil). Anaesthetic effect.
		13,0 <b>OLETH-10</b>	Oleth-10	HLB corrector.
		14,0 <b>RYOTO SWA-10D</b>	Decaglycerol stearate	Co-emulsifier. Prevents creaming.
		14,0 <b>NEOWAX EL 40</b>	PEG-40 Castor oil	Solubilizer.
		14,0 <b>NEOWAX ELH 40</b>	PEG-40 Hydrogenated castor oil	Available in liquid or paste types. Solubilizer, does not become rancid.
		14,8 <b>POLYSORBATE-60</b>	Polysorbate-60	Solubilizer.
		15,0 <b>RYOTO M-10D</b>	Decaglycerol myristate	Co-emulsifier.
		15,0 <b>POLYSORBATE-80</b>	Polysorbate-80	Solubilizer.
		15,0 <b>SURFHOPE C-1215L</b>	Sucrose laurate	Natural O/W emulsifier. Solubilizer.
		15,0 <b>SURFHOPE C-1715</b>	Sucrose oleate	HLB corrector.
		15,0 <b>SURFHOPE C-1615</b>	Sucrose palmitate	Forms exceptionally heat stable emulsions.
		15,0 <b>SURFHOPE C-1815</b>	Sucrose stearate	Forms liquid crystal structures in aqueous solutions.
	Detergent	15,3 <b>CETEARETH-20</b>	Ceteareth-20	Used in combination with other ceteareth, or alone (with cetearyl alcohol) for body milks.
		15,5 <b>ISOCETETH-20</b>	Isoceteth-20	Solubilizer for micro-emulsions.
		15,5 <b>PEG-20 STEARATE</b>	PEG-20 Stearate	Forms very stable emulsion for difficult application with salts, acids.
		15,5 <b>STEARETH-21</b>	Steareth-21	Used in combination with steareth-2 for milk or cream emulsions, or alone for O/W emulsion with up to 70% oil phase. Salt, acid and alkaline stable.
		15,6 <b>OLETH-20</b>	Oleth-20	Powerful solubilizer in addition with oleth-30.
		15,7 <b>POLYSORBATE 40</b>	Polysorbate 40	Solubilizer.

Function		HLB	Trade Name	INCI Name	Properties
O/W emulsifier	Solubilizer	16,0	CETARETH-25	Ceteareth-25	Used in combination with other ceteareth, or alone (with cetearyl alcohol) for body milks.
		16,0	RYOTO L-10D	Decaglycerol laurate	Natural solubilizer. Stabilizes O/W emulsions.
		16,0	SURFHOPE C-1216	Sucrose laurate	Forms elegant O/W emulsions.
		16,0	SURFHOPE C-1416	Sucrose myristate	
		16,0	SURFHOPE C-1616	Sucrose palmitate	Forms exceptionally heat stable emulsions.
		16,0	SURFHOPE C-1816	Sucrose stearate	Tends to form liquid crystal structures in aqueous solutions.
		16,7	POLYSORBATE 20	Polysorbate 20	Solubilizer. Decreases the eye irritation of SLES.
		16,9	LAURETH-23	Laureth-23	Solubilizer, hair wetting agent (shampoos, shave products).
		16,9	PEG-40 STEARATE	PEG-40 Stearate	Forms very stable emulsion for difficult application with salts, acids.
		17,0	CETARETH-30	Ceteareth-30	Used with very strong oxidative (H <sub>2</sub> O <sub>2</sub> ) or reductive (thioglycolates) substances.
		17,0	RYOTO L-7D	Decaglycerol laurate	Natural solubilizer. Stabilizes O/W emulsions.
		17,0	OLETH-30	Oleth-30	Powerful solubilizer in addition with oleth-20.
		17,5	CETARETH-50	Ceteareth-50	
		17,8	OLETH-50	Oleth-50	
		18,8	PEG-100 STEARATE	PEG-100 Stearate	Strong emulsifier, giving very stable systems in combination with glyceryl stearate. Offers more versatility than Neowax FL65.
			NEOWAX NH	Cetearyl alcohol, Sodium cetearyl sulfate	Self-emulsifying O/W anionic base, suitable for creams lotions containing disturbing agents.
			NEOCARE OLIVE	Olivoyl hydrolized wheat protein, Cetearyl alcohol, Glyceryl oleate, Glyceryl stearate, Potassium hydroxide	Natural olive based O/W emulsifier for rich lotions and creams; foaming emulsions.
			NEOCARE PALM	Palmitoyl hydrolized wheat protein	Natural palm based O/W lipoproteic emulsifier for rich lotions and creams.
			SABOWAX AE	Glyceryl stearate, Ceteareth-2, Ceteareth-12, Cetearyl alcohol, Cetyl palmitate	Self-emulsifying O/W base, suitable for lotions, creams and ointments. Very good stability.