

KOLB

Emulsifiers, emollients
and solubilizers
for personal care



Explore Kolb's world of functionals

Headquartered in Switzerland with production sites both in Switzerland and the Netherlands, the company Kolb presents itself successfully in the sector of surface active substances in various industries. Kolb supplies its products worldwide through a reliable distributor network.

Kolb stands for its commitment to its customers, as well as for products on a constant high quality. Our division personal care is based on a year long expertise and knowledge. Therefore Kolb is an ideal partner for customers in the cosmetic sector.

Our product range comprises emollients, solubilizers and emulsifiers in particular. Our products are of entirely vegetable origin. In addition to products which are suitable for natural cosmetics, our product range offers emulsifiers which are especially designed for demanding formulations.

We are looking forward to meet your interests in our products. Contact us for further information or ask for your local distributor.

Your Kolb-Team



This information is based on our current knowledge and is only meant to indicate general notes of our products and their possible uses. It does not constitute a warranty and the customer should satisfy itself of the suitability of the content for its own particular purpose.

Health and safety advice on the products is given in the individual product safety datasheets, available on request.

Kosteran, Kotilen, Sympatens are Trade Marks of Dr. W. Kolb AG.

Contents

O/W emulsifiers	4-6
W/O emulsifiers	7
Emollients	8
Solubilizers	8
PEG-free emulsifiers	9
Classification according to INCI names	10-11
Classification according to HLB values	12-13
Safety, quality and environmental protection	14

O/W emulsifiers

Product	INCI	HLB	Aspect at 25°C	Application
Kosteran-L/1	Sorbitan Laurate	8.6	liquid	Emulsifiers of the Kosteran range are nonionic emulsifiers for skin care creams and lotions of entirely vegetable origin
Kotilen-L/1	Polysorbate 20	16.7	liquid	Known as versatile ingredients for various formulation purposes, polysorbates are used as hydrophilic emulsifiers or solubilizers. The Kotilens are established in their applications in personal care, cosmetics and toiletries
Kotilen-P/1	Polysorbate 40	15.6	liquid-pasty	
Kotilen-S/1	Polysorbate 60	14.9	liquid-pasty	
Kotilen-S/3	Polysorbate 65	10.5	solid	
Kotilen-O/1	Polysorbate 80	15.0	liquid	
Kotilen-O/1/050	Polysorbate 81	10.0	liquid	
Kotilen-O/3	Polysorbate 85	11.0	liquid	
Sympatens-ALM/020	Laureth-2	6.1	liquid	Emulsifier, foam booster, superfatting agent, solubilizer for solvents and opacifier
Sympatens-ALM/030	Laureth-3	8.0	liquid	
Sympatens-ALM/040	Laureth-4	9.4	liquid	
Sympatens-ALM/070 90%	Laureth-7	12.3	liquid	Emulsifier, solubilizer, lubricant, surfactant for cosmetics
Sympatens-AL/090	Laureth-9	13.6	liquid	
Sympatens-ALM/230	Laureth-23	16.7	solid	Emulsifier, stabilizer, solubilizer, thickener, dispersant. Used in skin care and shaving foams
Sympatens-AC/100	Ceteth-10	12.9	solid	Surfactant, emulsifier, wetting agent, conditioner for personal care products, solubilizer for fragrances
Sympatens-AC/200 G	Ceteth-20	15.7	solid	
Sympatens-AIC/200	Isoceteth-20	15.5	solid	Emulsifier, solubilizer, solvent for cosmetics
Sympatens-ACS/120	Cetareth-12	13.5	solid	Wetting agent, emulsifier, solubilizer for cosmetic preparations
Sympatens-ACS/200 G	Cetareth-20	15.4	solid	Emulsifier, dispersant, solubilizer, wetting agent, viscosity control agent for cosmetic preparations
Sympatens-ACS/250 G	Cetareth-25	16.1	solid	
Sympatens-ACS/300 G	Cetareth-30	16.5	solid	
Sympatens-AS/100	Stearth-10	12.4	solid	Emulsifier, dispersant, wetting agent for cosmetic preparations
Sympatens-AS/200 G	Stearth-20	15.2	solid	
Sympatens-AS/1000 / Sympatens-AS/1000 G	Stearth-100	18.8	solid	Emulsifier and stabilizer for cosmetics, gel-forming surfactant
Sympatens-AO/100	Oleth-10	12.5	liquid-pasty	Emulsifier, stabilizer, solubilizer for cosmetics, toiletries and fragrances, gel phase builder
Sympatens-AO/200	Oleth-20	15.3	solid	Coupling agent, solubilizer, emulsion stabilizer for cosmetics and hair care, gel phase builder
Sympatens-AT/080	Isotrideceth-8	12.5	liquid	Emulsifier and co-emulsifier for sun care and cleansing applications
Sympatens-AT/090	Isotrideceth-9	13.0	liquid	
Sympatens-T/150	Isotrideceth-15	15.5	solid	
Sympatens-BE/050	PEG-5 Caprate	11.4	liquid	Emulsifier for cleansing applications

Product	INCI	HLB	Aspect at 25°C	Application
Sympatens-BL/060	PEG-6 Laurate	12.0	liquid	Emulsifier for face and body cleansing products, cleansing wipes, bath preparations
Sympatens-BS/080	PEG-8 Stearate	11.1	solid	Emulsifier and co-emulsifier for creams and lotions
Sympatens-BS/200	PEG-20 Stearate	15.0	solid	Emulsifier, stabilizer, dispersing agent for cosmetic products
Sympatens-BS/300 G	PEG-30 Stearate	16.5	solid	
Sympatens-BS/400 G	PEG-40 Stearate	17.3	solid	
Sympatens-BS/1000 G	PEG-100 Stearate	18.8	solid	Surfactant, emulsifier for hair care preparations, creams and lotions, solubilizer for bath oils and fragrances
Sympatens-PEG/400	PEG-8	n.a.	liquid	Solubilizer, moisturizer, stabilizer for skin and mouth care products
Sympatens-PEG/4000 G	PEG-75	n.a.	solid	
Sympatens-GMC/070	PEG-7 Glyceryl Cocoate	11.0	liquid	Emollient, moisturizer, surfactant for shampoos and cleansing products
Sympatens-GMIS/200	PEG-20 Glyceryl Isostearate	14.2	liquid	Emulsifier, solubilizer, suspending and dispersing agent, surfactant for shampoos and cleansing products
Sympatens-LAN/750 G	PEG-75 Lanolin	16.7	solid	Emulsifier for cosmetic emulsions, superfatting agent, conditioner for skin and hair care products, wetting and dispersing agent
Sympatens-TAL/350	PEG-35 Almond Glycerides	12.0	liquid	Emulsifier for cosmetic emulsions, conditioner for skin and hair care products
Sympatens-O/100 / Sympatens-O/100 G	Steareth-21	15.5	solid	Blended emulsifier for creams and lotions, antiperspirant preparations, emulsions with high content of electrolytes at low pH-values
Sympatens-O/120 G	Glyceryl Stearate (and) PEG-100 Stearate	11.0	solid	Blended emulsifiers for creams and lotions, support emulsions with consistency giving properties
Sympatens-O/140 G	Cetearyl Alcohol (and) PEG-100 Stearate	8.5	solid	
Sympatens-O/150 G	Cetearyl Alcohol (and) Ceteareth-25	8.0	solid	
Sympatens-O/200 G	Glyceryl Stearate (and) PEG-30 Stearate	8.5	solid	
Sympatens-O/220	Steareth-2 (and) PEG-8 Distearate	7.5	solid	
Sympatens-O/300 G	Cetearyl Alcohol (and) Ceteareth-33	7.2	solid	
Sympatens-O/2500 G	Sorbitan Stearate (and) Methyl Glucose Sesquistearate	6.0	solid	
Sympatens-O/3100 G	Sorbitan Stearate (and) Methyl Glucose Sesquistearate	6.0	solid	Emulsifier für O/W skin and body care creams, providing a soft skin feel. Sympatens-O/3100 G supports a richer texture than Sympatens-O/2500 G

O/W emulsifiers

Product	INCI	HLB	Aspect at 25°C	Application
Sympatens-O/4200	Sorbitan Laurate (and) Polyglyceryl-10 Laurate	9.6	liquid	Natural emulsifiers for skin care creams and lotions, sprayable emulsions, sun care, hot and cold processing possible
Sympatens-O/4400	Sorbitan Laurate (and) Polyglyceryl-10 Laurate (and) Sorbitan Triricinoleate	9.4	liquid-pasty	
Sympatens-SHO/400	Sorbeth-40 Hexaoleate	10.0	liquid	Emulsifiers, solubilizers and spreading agents, providing consistency and rich skin feel for bath preparations
Sympatens-SIS/400	PEG-40 Sorbitan Perisostearate	10.0	liquid	
Sympatens-SPO/400	PEG-40 Sorbitan Peroleate	9.5	liquid	
Sympatens-TR/350	PEG-35 Castor Oil	12.5	liquid	Solubilizer and emulsifier for cosmetic emulsions
Sympatens-TR/400	PEG-40 Castor Oil	13.0	liquid	
Sympatens-TRH/250	PEG-25 Hydrogenated Castor Oil	10.8	liquid	Emulsifier and wetting agent for cosmetic emulsions
Sympatens-TRH/400	PEG-40 Hydrogenated Castor Oil	14.0	liquid-pasty	Solubilizer and emulsifier for cosmetic emulsions and mouth care preparations
Sympatens-TRH/600	PEG-60 Hydrogenated Castor Oil	16.0	pasty	

Emulsification at room temperature

Environmental awareness is nowadays omnipresent. How can a production be positioned more environmentally friendly? Emulsification at room temperature provides advantages in many aspects. Both in production and in development process, cold emulsification offers possibilities for savings. Neither time nor energy is required for heating water-and oilphases before first emulsification step. For the same reason, no cooling of the emulsion is required later which leads to an economy of time and cooling water. As a further advantage of emulsification at room temperature think of incorporating heat sensitive ingredients right at the beginning of the process. This may reduce process steps and, once more, time for the entire production process.

Every emulsifier which is liquid at room temperature may be suitable for emulsification at room temperature.

Emulsification at room temperature may contribute with its economy of energy even in reducing greenhouse gas emissions.

We think, it is worth a try.

W/O emulsifiers

Product	INCI	HLB	Aspect at 25°C	Application
Kosteran-S/1 G	Sorbitan Stearate	4.7	solid	Emulsifiers of the Kosteran range are nonionic emulsifiers of entirely vegetable origin, to be used for skin care creams and lotions. They are considered being stable to electrolytes, mild acids and alkalis
Kosteran-S/3 G	Sorbitan Tristearate	2.1	solid	
Kosteran-I/1	Sorbitan Isostearate	4.3	liquid	
Kosteran-I/3	Sorbitan Triisostearate	2.5	liquid	
Kosteran-O/1	Sorbitan Oleate	4.3	liquid	
Kosteran-O/3	Sorbitan Trioleate	1.8	liquid	
Kosteran-SQ/0	Sorbitan Sesquioleate	3.7	liquid	
Sympatens-AC/020	Ceteth-2	5.3	solid	Emulsifier, stabilizer, solubilizer, thickener, dispersant for cosmetic emulsions
Sympatens-AS/020 Sympatens-AS/020 G	Steareth-2	4.9	solid	Emulsifier, dispersant, wetting agent for antiperspirants, deodorants and skin care
Sympatens-AO/020	Oleth-2	5.0	liquid	Emulsifier and co-emulsifier for hair colour and bleaching preparations, antiperspirant, deodorant, facial cleanser, styling gels and lotions, shampoos and hand creams
Sympatens-GMIS	Glyceryl Isostearate	3.5	liquid	Emulsifier for cosmetic creams and lotions
Sympatens-GMS	Glyceryl Stearate	3.5	solid	Emulsifier for cosmetic creams and lotions, viscosity modifier for emulsions
Sympatens-TRH/070	PEG-7 Hydrogenated Castor Oil	5.0	liquid	Emulsifier and softener for cosmetic applications
Sympatens-W/130	Sorbitan Monooleate (and) Hydrogenated Castor Oil (and) Beeswax (and) Stearic Acid	4.5	pasty	Emulsifiers for creams and lotions, applicable with low polar to unpolar oilphases
Sympatens-W/230	Sorbitan Isostearate (and) Hydrogenated Castor Oil (and) Beeswax (and) Stearic Acid	4.5	pasty	
Sympatens-W/4500	Sorbitan Oleate (and) Polyglyceryl-3 Polyricinoleate	3.5	liquid	








Emollients

Product	INCI	Aspect at 25°C	Application
Sympatens-ES	Ethylhexyl Stearate	liquid	Synthetic ester oil for skin care applications, creams and lotions, make up, hair care and cleansing products
Sympatens-LBZ	C12-15 Alkyl Benzoate	liquid	Synthetic ester oil for skin care applications, creams and lotions, coupling agent and solvent for polar oils and chemical sun screen filters
Sympatens-DOA	Diethylhexyl Adipate	liquid	Synthetic ester oil for skin care applications, creams and lotions, sun care, liquid and solid make-up, deodorants and antiperspirants. Despite a rich skin feel, it provides a silky and powdery after feel. Very good spreadability
Sympatens-ASP/150	PPG-15 Stearyl Ether	liquid	Emollient, dispersant, solubilizer, solvent for cosmetics; coupler for fragrances, polar oils and antiperspirant actives

Solubilizers

Product	INCI	HLB	Aspect at 25°C
Kotilen-L/1	Polysorbate 20	16.7	liquid
Kotilen-P/1	Polysorbate 40	15.6	liquid-pasty
Kotilen-S/1	Polysorbate 60	14.9	liquid-pasty
Kotilen-O/1	Polysorbate 80	15.0	liquid
Sympatens-ALM/230 G	Laureth-23	16.7	solid
Sympatens-AC/200 G	Ceteth-20	15.7	solid
Sympatens-AIC/200	Isoceteth-20	15.5	solid
Sympatens-ACS/200 G	Ceteareth-20	15.4	solid
Sympatens-ACS/250 G	Ceteareth-25	16.1	solid
Sympatens-ACS/300 G	Ceteareth-30	16.5	solid
Sympatens-AS/200 G	Steareth-20	15.2	solid
Sympatens-AO/200	Oleth-20	15.3	solid
Sympatens-T/150	Isotrideceth-15	15.5	solid
Sympatens-PEG/400	PEG-8	n.a.	liquid
Sympatens-PEG/4000 G	PEG-75	n.a.	solid
Sympatens-TRH/400	PEG-40 Hydrogenated Castor Oil	14.0	liquid-pasty
Sympatens-TRH/600	PEG-60 Hydrogenated Castor Oil	16.0	pasty

PEG-free emulsifiers

Product	HLB	Aspect at 25°C	INCI	Applications
O/W emulsifiers				
Kosteran-L/1 	8.6	liquid	Sorbitan Laurate	Emulsifiers of the Kosteran range are nonionic emulsifiers of entirely vegetable origin, to be used for skin care creams and lotions. They are considered being stable to electrolytes, mild acids and alkalis
Sympatens-O/2500 G 	6.0	solid	Sorbitan Stearate (and) Methyl Glucose Sesquistearate	Emulsifier for skin and body care creams, providing a soft skin feel. Sympatens-O/3100 G supports a richer texture than Sympatens-O/2500 G
Sympatens-O/3100 G 	6.0	solid	Sorbitan Stearate (and) Methyl Glucose Sesquistearate	
Sympatens-O/4200 	9.6	liquid	Sorbitan Laurate (and) Polyglyceryl-10 Laurate	Emulsifier for skin care creams and lotions, sprayable emulsions, sun care, hot and cold processing possible
Sympatens-O/4400	9.4	liquid-pasty	Sorbitan Laurate (and) Polyglyceryl-10 Laurate (and) Sorbitan Triricinoleate	
W/O emulsifiers				
Kosteran-I/1	4.3	liquid	Sorbitan Isostearate	Emulsifiers of the Kosteran range are nonionic emulsifiers of entirely vegetable origin, to be used for skin care creams and lotions. They are considered being stable to electrolytes, mild acids and alkalis
Kosteran-I/3	2.5	liquid	Sorbitan Triisostearate	
Kosteran-O/1 	4.3	liquid	Sorbitan Oleate	
Kosteran-O/3	1.8	liquid	Sorbitan Trioleate	
Kosteran-S/1 G 	4.7	solid	Sorbitan Stearate	
Kosteran-S/3 G	2.1	solid	Sorbitan Tristearate	
Kosteran-SQ/O	4.5	liquid	Sorbitan Sesquioleate	Emulsifier, suspending and dispersing agent, surfactant for shampoos and cleansing products
Sympatens-GMIS	3.5	liquid	Glyceryl Isostearate	
Sympatens-GMS	3.5	solid	Glyceryl Stearate	Emulsifier for cosmetic creams and lotions, viscosity modifier for emulsions
Sympatens-W/130	4.5	pasty	Sorbitan Monooleate (and) Hydrogenated Castor Oil (and) Beeswax (and) Stearic Acid	Emulsifier for creams and lotions, applicable with low polar to unpolar oilphases
Sympatens-W/230	4.5	pasty	Sorbitan Isostearate (and) Hydrogenated Castor Oil (and) Beeswax (and) Stearic Acid	
Sympatens-W/4500 	3.5	liquid	Sorbitan Oleate (and) Polyglyceryl-3 Polyricinoleate	Emulsifier for sun care, face and body care creams and lotions, cold and hot processing possible

 validated by EcoCert

Classification according to INCI names

INCI	Product name	HLB
Ceteareth-12	Sympatens-ACS/120	13.5
Ceteareth-20	Sympatens-ACS/200 G	15.4
Ceteareth-25	Sympatens-ACS/250 G	16.1
Ceteareth-30	Sympatens-ACS/300 G	16.5
Cetearyl Alcohol (and) Ceteareth-33	Sympatens-O/300 G	7.2
Cetearyl Alcohol (and) Ceteareth-25	Sympatens-O/150 G	8.0
Cetearyl Alcohol (and) PEG-100 Stearate	Sympatens-O/140 G	8.5
Ceteth-10	Sympatens-AC/100	12.9
Ceteth-2	Sympatens-AC/020	5.3
Ceteth-20	Sympatens-AC/200 G	15.7
Glyceryl Isostearate	Sympatens-GMIS	3.5
Glyceryl Stearate	Sympatens-GMS	3.5
Glyceryl Stearate (and) PEG-30 Stearate	Sympatens-O/200 G	8.5
Glyceryl Stearate (and) PEG-100 Stearate	Sympatens-O/120 G	11.0
Isoceteth-20	Sympatens-AIC/200	15.5
Isotrideceth-15	Sympatens-T/150	15.5
Isotrideceth-8	Sympatens-AT/080	12.5
Isotrideceth-9	Sympatens-AT/090	13.0
Laureth-2	Sympatens-ALM/020	6.1
Laureth-23	Sympatens-ALM/230	16.7
Laureth-3	Sympatens-ALM/030	8.0
Laureth-4	Sympatens-ALM/040	9.4
Laureth-7	Sympatens-ALM/070 90%	12.3
Laureth-9	Sympatens-AL/090	13.6
Oleth-10	Sympatens-AO/100	12.5
Oleth-2	Sympatens-AO/020	5.0
Oleth-20	Sympatens-AO/200	15.3
PEG-100 Stearate	Sympatens-BS/1000 G	18.8
PEG-20 Glyceryl Isostearate	Sympatens-GMIS/200	14.2
PEG-20 Stearate	Sympatens-BS/200	15.0
PEG-25 Hydrogenated Castor Oil	Sympatens-TRH/250	10.8
PEG-30 Stearate	Sympatens-BS/300 G	16.5
PEG-35 Almond Glycerides	Sympatens-TAL/350	12.0
PEG-35 Castor Oil	Sympatens-TR/350	12.5
PEG-40 Castor Oil	Sympatens-TR/400	13.0
PEG-40 Hydrogenated Castor Oil	Sympatens-TRH/400	14.0
PEG-40 Sorbitan Perisostearate	Sympatens-SIS/400	10.0
PEG-40 Sorbitan Perolate	Sympatens-SPO/400	9.5
PEG-40 Stearate	Sympatens-BS/400 G	17.3
PEG-5 Caprate	Sympatens-BE/050	11.4

INCI	Produktname	HLB
PEG-6 Laurate	Sympatens-BL/060	12.0
PEG-60 Hydrogenated Castor Oil	Sympatens-TRH/600	16.0
PEG-7 Glyceryl Cocoate	Sympatens-GMC/070	11.0
PEG-7 Hydrogenated Castor Oil	Sympatens-TRH/070	5.0
PEG-75	Sympatens-PEG/4000 G	n.a.
PEG-75 Lanolin	Sympatens-LAN/750 G	16.7
PEG-8	Sympatens-PEG/400	n.a.
PEG-8 Stearate	Sympatens-BS/080	11.1
Polysorbate 20	Kotilen-L/1	16.7
Polysorbate 40	Kotilen-P/1	15.6
Polysorbate 60	Kotilen-S/1	14.9
Polysorbate 65	Kotilen-S/3	10.5
Polysorbate 80	Kotilen-O/1	15.0
Polysorbate 81	Kotilen-O/1/050	10.0
Polysorbate 85	Kotilen-O/3	11.0
Sorbeth-40 Hexaoleate	Sympatens-SHO/400	10.0
Sorbitan Isostearate	Kosteran-I/1	4.3
Sorbitan Laurate	Kosteran-L/1	8.6
Sorbitan Laurate (and) Polyglyceryl-10 Laurate	Sympatens-O/4200	9.6
Sorbitan Laurate (and) Polyglyceryl-10 Laurate (and) Sorbitan Triricinoleate	Sympatens-O/4400	9.4
Sorbitan Isostearate (and) Hydrogenated Castor Oil (and) Beeswax (and) Stearic Acid	Sympatens-W/230	4.5
Sorbitan Monooleate (and) Hydrogenated Castor Oil (and) Beeswax (and) Stearic Acid	Sympatens-W/130	4.5
Sorbitan Oleate	Kosteran-O/1	4.3
Sorbitan Oleate (and) Polyglyceryl-3 Polyricinoleate	Sympatens-W/4500	3.5
Sorbitan Palmitate	Kosteran-P/1 G	6.7
Sorbitan Sesquioleate	Kosteran-SQ/0	3.7
Sorbitan Stearate	Kosteran-S/1 G	4.7
Sorbitan Stearate (and) Methyl Glucose Sesquisteate	Sympatens-O/2500 G	6.0
Sorbitan Stearate (and) Methyl Glucose Sesquisteate	Sympatens-O/3100 G	6.0
Sorbitan Triisostearate	Kosteran-I/3	2.5
Sorbitan Trioleate	Kosteran-O/3	1.8
Sorbitan Tristearate	Kosteran-S/3 G	2.1
Steareth-10	Sympatens-AS/100	12.4
Steareth-100	Sympatens-AS/1000 / Sympatens-AS/1000 G	18.8
Steareth-2	Sympatens-AS/020 / Sympatens-AS/020 G	4.9
Steareth-2 (and) PEG-8 Distearate	Sympatens-O/220	7.5
Steareth-20	Sympatens-AS/200 G	15.2
Steareth-21	Sympatens-O/100 / Sympatens-O/100 G	15.5

Classification according to HLB values

HLB	INCI	Product name
1.8	Sorbitan Trioleate	Kosteran-O/3
2.1	Sorbitan Tristearate	Kosteran-S/3 G
2.5	Sorbitan Triisostearate	Kosteran-I/3
3.5	Glyceryl Isostearate	Sympatens-GMIS
3.5	Glyceryl Stearate	Sympatens-GMS
3.5	Sorbitan Oleate (and) Polyglyceryl-3 Polyricinoleate	Sympatens-W/4500
3.7	Sorbitan Sesquioleate	Kosteran-SQ/0
4.3	Sorbitan Oleate	Kosteran-O/1
4.3	Sorbitan Isostearate	Kosteran-I/1
4.5	Sorbitan Monooleate (and) Hydrogenated Castor Oil (and) Beeswax (and) Stearic Acid	Sympatens-W/130
4.5	Sorbitan Isostearate (and) Hydrogenated Castor Oil (and) Beeswax (and) Stearic Acid	Sympatens-W/230
4.7	Sorbitan Stearate	Kosteran-S/1 G
4.9	Steareth-2	Sympatens-AS/020 / Sympatens-AS/020 G
5.0	Oleth-2	Sympatens-AO/020
5.0	PEG-7 Hydrogenated Castor Oil	Sympatens-TRH/070
5.3	Ceteth-2	Sympatens-AC/020
6.0	Sorbitan Stearate (and) Methyl Glucose Sesquistearate	Sympatens-O/2500 G
6.0	Sorbitan Stearate (and) Methyl Glucose Sesquistearate	Sympatens-O/3100 G
6.1	Laureth-2	Sympatens-ALM/020
6.7	Sorbitan Palmitate	Kosteran-P/1 G
7.2	Cetearyl Alcohol (and) Cetareth-33	Sympatens-O/300 G
7.5	Steareth-2 (and) PEG-8 Distearate	Sympatens-O/220
8.0	Cetearyl Alcohol (and) Cetareth-25	Sympatens-O/150 G
8.0	Laureth-3	Sympatens-ALM/030
8.5	Cetearyl Alcohol (and) PEG-100 Stearate	Sympatens-O/140 G
8.5	Glyceryl Stearate (and) PEG-30 Stearate	Sympatens-O/200 G
8.6	Sorbitan Laurate	Kosteran-L/1
9.4	Laureth-4	Sympatens-ALM/040
9.4	Sorbitan Laurate (and) Polyglyceryl-10 Laurate (and) Sorbitan Triricinoleate	Sympatens-O/4400
9.5	PEG-40 Sorbitan Perolate	Sympatens-SPO/400
9.6	Sorbitan Laurate (and) Polyglyceryl-10 Laurate	Sympatens-O/4200
10.0	Sorbeth-40 Hexaoleate	Sympatens-SHO/400
10.0	PEG-40 Sorbitan Perisostearate	Sympatens-SIS/400
10.0	Polysorbate 81	Kotilen-O/1/050
10.5	Polysorbate 65	Kotilen-S/3
10.8	PEG-25 Hydrogenated Castor Oil	Sympatens-TRH/250
11.0	Glyceryl Stearate (and) PEG-100 Stearate	Sympatens-O/120 G
11.0	PEG-7 Glyceryl Cocoate	Sympatens-GMC/070
11.0	Polysorbate 85	Kotilen-O/3
11.1	PEG-8 Stearate	Sympatens-BS/080
11.4	PEG-5 Caprate	Sympatens-BE/050

HLB	INCI	Product name
12.0	PEG-35 Almond Glycerides	Sympatens-TAL/350
12.0	PEG-6 Laurate	Sympatens-BL/060
12.3	Laureth-7	Sympatens-ALM/070 90%
12.4	Stearth-10	Sympatens-AS/100
12.5	Isotrideceth-8	Sympatens-AT/080
12.5	Oleth-10	Sympatens-AO/100
12.5	PEG-35 Castor Oil	Sympatens-TR/350
12.9	Ceteth-10	Sympatens-AC/100
13.0	Isotrideceth-9	Sympatens-AT/090
13.0	PEG-40 Castor Oil	Sympatens-TR/400
13.5	Cetareth-12	Sympatens-ACS/120
13.6	Laureth-9	Sympatens-AL/090
14.0	PEG-40 Hydrogenated Castor Oil	Sympatens-TRH/400
14.2	PEG-20 Glyceryl Isostearate	Sympatens-GMIS/200
14.9	Polysorbate 60	Kotilen-S/1
15.0	PEG-20 Stearate	Sympatens-BS/200
15.0	Polysorbate 80	Kotilen-O/1
15.2	Stearth-20	Sympatens-AS/200 G
15.3	Oleth-20	Sympatens-AO/200
15.4	Cetareth-20	Sympatens-ACS/200 G
15.5	Isoceteth-20	Sympatens-AIC/200
15.5	Isotrideceth-15	Sympatens-T/150
15.5	Stearth-21	Sympatens-O/100
15.6	Polysorbate 40	Kotilen-P/1
15.7	Ceteth-20	Sympatens-AC/200 G
16.0	PEG-60 Hydrogenated Castor Oil	Sympatens-TRH/600
16.1	Cetareth-25	Sympatens-ACS/250 G
16.5	Cetareth-30	Sympatens-ACS/300 G
16.5	PEG-30 Stearate	Sympatens-BS/300 G
16.7	Laureth-23	Sympatens-ALM/230
16.7	PEG-75 Lanolin	Sympatens-LAN/750 G
16.7	Polysorbate 20	Kotilen-L/1
17.3	PEG-40 Stearate	Sympatens-BS/400 G
18.8	PEG-100 Stearate	Sympatens-BS/1000 G
18.8	Stearth-100	Sympatens-AS/1000 / Sympatens-AS/1000 G

Safety, quality and environmental protection

Health, safety and environmental protection (HSE) have always been a key element of the Kolb philosophy. The certification of our integrated management system to ISO 9001/14001 in recent years represented a significant step forward in this direction. Thanks to this management system, we can implement even more purposefully our control system for continuously improving our environmental performance and risk management:

- Annual HSE target setting based on the Kolb policy for health, safety and environmental protection
- Definition and implementation of the respective measures
- Monitoring, measurement and evaluation of results

The successful certification to ISO 14001 in autumn 2000 of both Kolb plants in Moerdijk (Netherlands) and Hedingen (Switzerland) is not only the result of our efforts, but also an obligation for the future.

Environmentally friendly and safe processes

At our two plants in Hedingen and Moerdijk the highest priority is given to minimizing environmental pollution and risks and to preserving resources. In recent years these efforts focused for example on:

- Implementation of a new exhaust purification concept using a biofilter
- Reduction of effluent contamination
- Reduction of energy consumption

Environmentally friendly products

Our product planning and development not only takes account of regulatory requirements, but also of consumer and customer preferences for environmentally friendly products. To meet this need, our range of Imbentin-U products now offers an excellent alternative to nonylphenol ethoxylates.

We also attach great importance to comprehensively informing and advising our customers on all product safety and environmental compatibility aspects. Our alcohol ethoxylates are classified according to the applicable CESIO recommendations.





Where you can find us:

Distribution

Kolb Distribution Ltd.
Maienbrunnenstrasse 1
P.O. Box 64
CH-8908 Hedingen
Switzerland
Phone +41 44 762 46 46
Fax +41 44 762 46 00
Contact by e-mail: cosinfo@kolb.ch

Production

Dr. W. Kolb AG
Maienbrunnenstrasse 1
P.O. Box 64
CH-8908 Hedingen



Kolb Asia Support Office (Malaysia)
40, Jln Intan 1/5
Tmn Puchong Intan
47100 Selangor, Malaysia
Phone +6016 2121 398
Mobile +6012 3298 768
Fax +603 8062 5293
E-Mail: kian.yap@kolb.ch

Dr. W. Kolb Nederland B.V.
Westelijke Randweg 5
Harbournumber M 431
NL-4791 AC Klundert
Phone +31 168 38 70 80
Fax +31 168 33 04 81

Representatives worldwide

We are supported in our activities by over 30 representative offices worldwide.