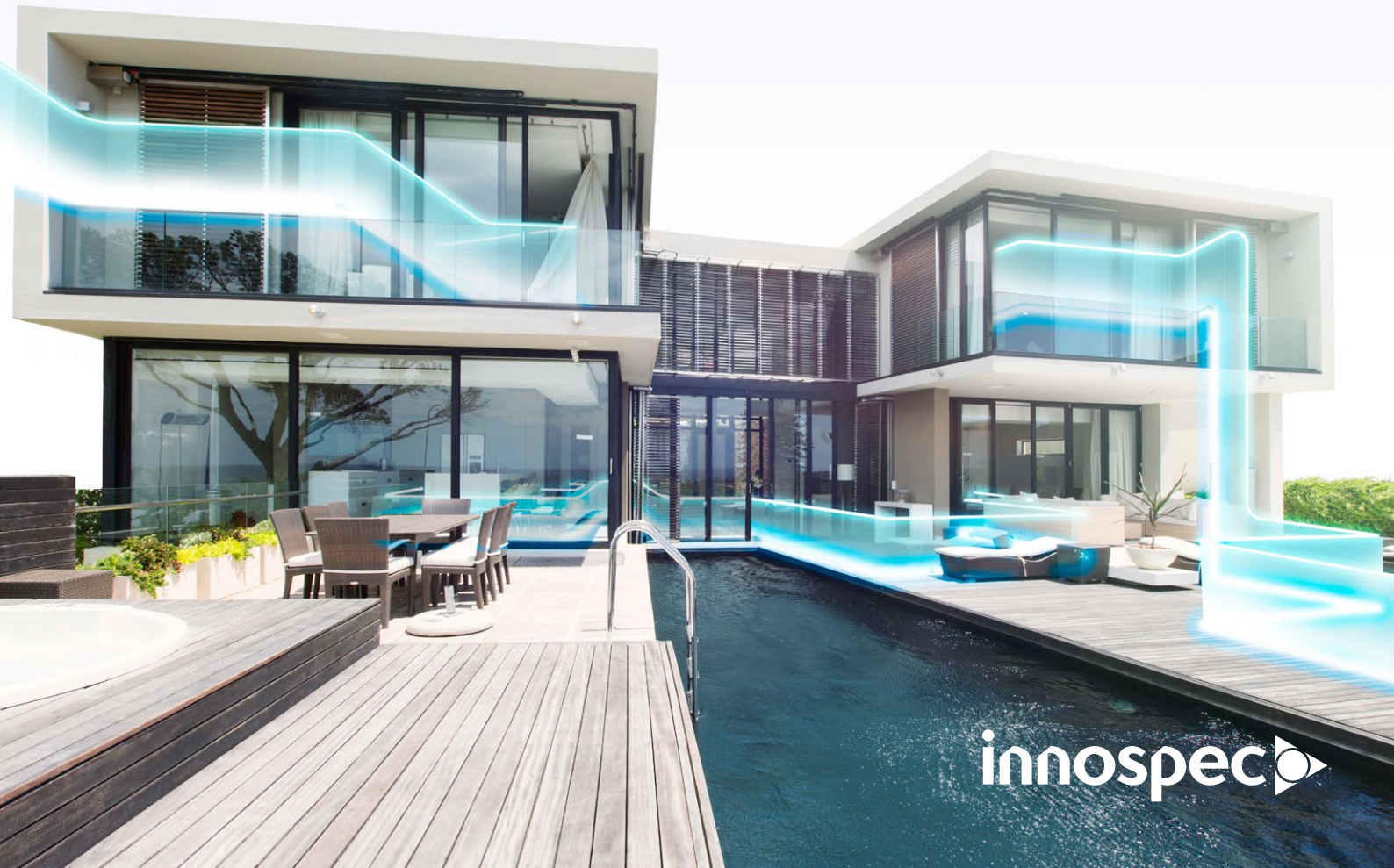
THE WHOLE HOME

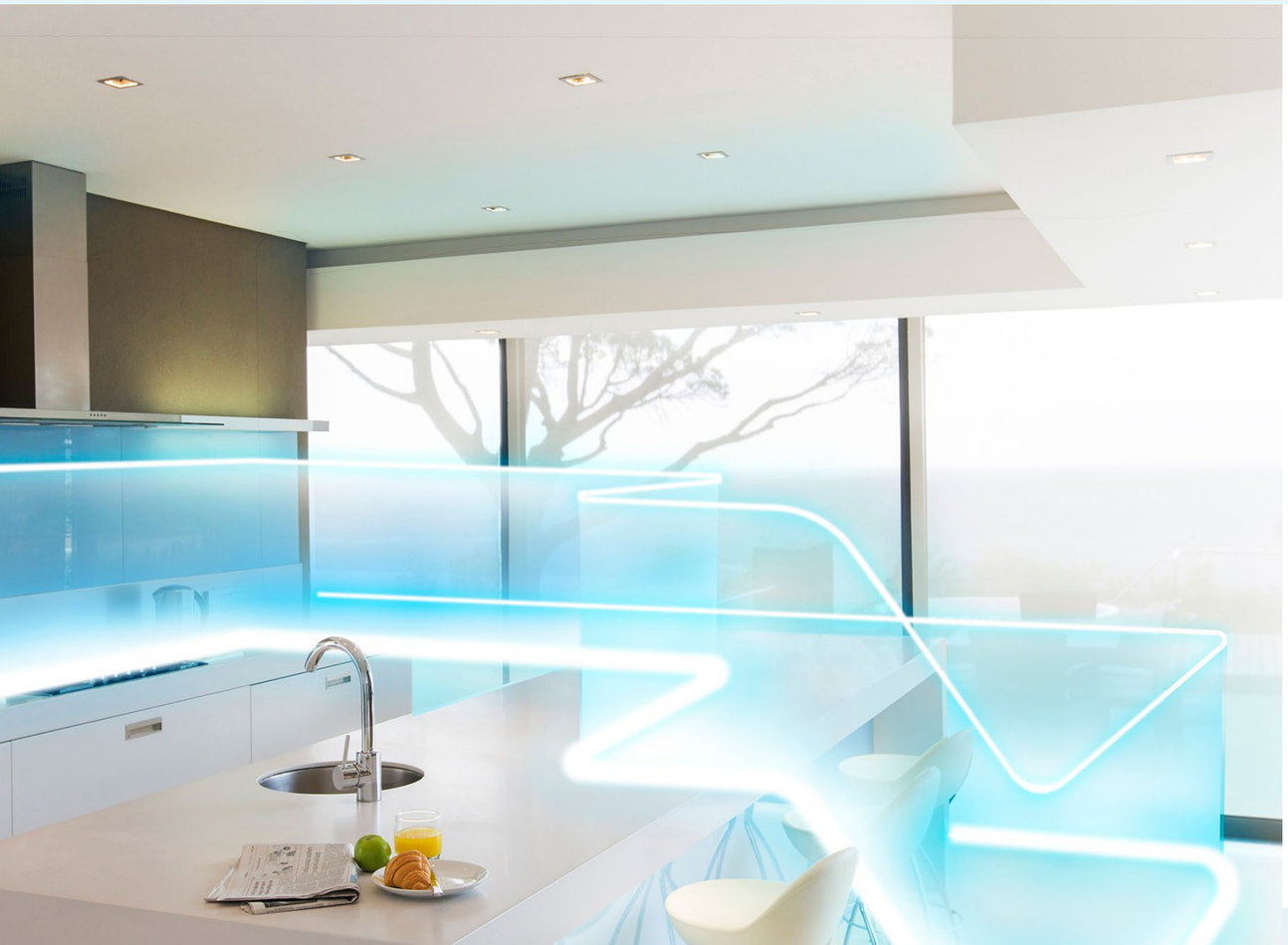
home care ingredients from innospec



Home Care from Innospec offers a diverse range of surfactants, additives and patented high-performance formulations for use in everyday cleaning products. Both our naturally derived and synthetic ingredients find their way into a variety of products from laundry liquids, pods, powders and tablets to dish care products, toilet care and multi-purpose cleaners.

Innospec are committed to continual innovation and developing products that contribute to a sustainable environment. Add in our extensive formulation expertise, market understanding, comprehensive product line-up and excellent customer support and it's not surprising our technologies are behind some of the world's most popular cleaning brands.

Whether you are looking for a fresh and breezy laundry detergent, squeaky-clean dish washer or a practical and functional household cleaning product, you can be sure the Innospec Home Care range will treat the whole home effectively.



Contents

innospec

Primary Surfactants

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam (soft water): Foam booster	Flash foam	Stable foam	Low foam	pH: Acid stable	Alkaline stable	Performance characteristics: Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Main application areas: Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	Additional characteristics: MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
EMPICOL® Alkyl Ether Sulfates																																
EMPICOL® EAC 70	Ammonium Laureth-3 Sulfate	68	70	Fluid Paste	C12-16	Primary anionic surfactant. Foaming (flash-foam, stable), cleaning and emulsifying agent. Hard water tolerant. Leaves less residue on surfaces. Formulating range of pH: neutral and slightly acidic.		■	■					■		■			■				■		■	■	■			O			EMPICOL® EAC 70
EMPICOL® EGC 70	Magnesium Laureth-3 Sulfate	68	70	Fluid Paste	C12-16	Primary anionic surfactant. Foaming (flash-foam, stable), cleaning and emulsifying agent. Hard water tolerant. Has greater oil solubility than Na salt. Less irritant than the correspondent Na salt. Better viscosity response and better foam stability than Na salt. Formulating range of pH: neutral and slightly acidic.		■	■					■		■			■				■		■	■	■						EMPICOL® EGC 70
EMPIMIN® Alkyl Ether Sulfates																																
EMPIMIN® LSM30	Sodium C9-11 Pareth-2 Sulfate	Non-vegetable	30	Liquid	C9-11	Primary anionic surfactant. High foaming (flash-foam), Good compatibility with high electrolytes levels. Compatible with alkaline systems. Preservative: Preservative: Methylisothiazolinone (and) Benzylisothiazolinone.		■	■			■		■					■	■	■				■	■		■						EMPIMIN® LSM30
EMPICOL® Alkyl Sulfates																																
EMPICOL® 0335/X	Sodium C10-12 Alkyl Sulfate	Non-vegetable*	30	Liquid	C10-12	Primary anionic surfactant. High foaming (flash-foam), Good compatibility with high electrolytes levels. Compatible with alkaline systems. Preservative: Methylchloroisothiazolinone (and) Methylisothiazolinone.		■				■		■					■		■				■	■		■			O		C	EMPICOL® 0335/X
EMPICOL® 0585/A	Sodium 2-Ethylhexyl Sulfate	Non-vegetable	40	Liquid	C8	Primary anionic surfactant. Low foaming. Good wetting properties also in alkaline conditions. Good compatibility with high electrolytes levels. Compatible with alkaline systems. Preservative: Methylisothiazolinone (and) Benzylisothiazolinone.				■		■		■	■				■		■				■	■		■			O	C	C	EMPICOL® 0585/A
EMPICOL® 0585/U	Sodium 2-Ethylhexyl Sulfate	Non-vegetable	40	Liquid	C8	Primary anionic surfactant. Low foaming. Good wetting properties also in alkaline conditions. Good compatibility with high electrolytes levels. Compatible with alkaline systems.				■		■		■	■				■		■				■	■		■				C	C	EMPICOL® 0585/U
EMPICOL® 0758	Sodium Decyl Sulfate	Non-vegetable*	40	Liquid	C8	Primary anionic surfactant. High foaming (flash-foam). Good compatibility with high electrolytes levels. Compatible with alkaline systems.		■				■		■					■		■				■	■		■				C	C	EMPICOL® 0758
EMPICOL® 0775/55	Sodium Lauryl Sulfate (and) Sodium Tallow Sulfate	100	55	Fluid, paste	C12-18	Primary anionic surfactant. Foaming (flash-foam). Ideal for the manufacture of hand-cleaning pastes at a pH close to that of the skin. This product is based on a selected blend of fatty alcohols which provide a higher viscosity build in aqueous formulations.		■				■		■					■						■									EMPICOL® 0775/55
EMPICOL® 0775/55/MB	Sodium Lauryl Sulfate (and) Sodium Tallow Sulfate	100	55	Fluid, paste	C12-18	Mass Balance RSPO Certified. Primary anionic surfactant. Foaming (flash-foam). Ideal for the manufacture of hand-cleaning pastes at a pH close to that of the skin. This product is based on a selected blend of fatty alcohols which provide a higher viscosity build in aqueous formulations.		■				■		■					■						■									EMPICOL® 0775/55/MB

Non-vegetable* = naturally derived grade may also be available upon request
O - For active ingredient only
C - Specific Concentration Limit

Primary Surfactants

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam (soft water): Foam booster	Flash foam	Stable foam	Low foam	pH: Acid stable	Alkaline stable	Performance characteristics: Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Main application areas: Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	Additional characteristics: MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	Product Name
EMPICOL® Alkyl Sulfates (cont)																																
EMPICOL® AL 25/EX	Ammonium Lauryl Sulfate	100	25	Liquid	C12-16	Primary anionic surfactant. High foaming (flash-foam). Better viscosity response than sodium salt. Easier to rinse than sodium salt. pH formulating range: neutral and slightly acidic. Preservative: Methylchloroisothiazolinone (and) Methylisothiazolinone.																						O		C	EMPICOL® AL 25/EX
EMPICOL® AL 70	Ammonium Lauryl Sulfate	100	68	Fluid, paste	C12-16	Primary anionic surfactant. High foaming (flash-foam). Better viscosity response than sodium salt. Easier to rinse than sodium salt. pH formulating range: neutral and slightly acidic.																								C	EMPICOL® AL 70
EMPICOL® LN9	Sodium Nonyl Sulfate	Non-vegetable	33	Liquid	C9	Primary anionic surfactant. High foaming (flash-foam). Good compatibility with high electrolytes levels. Compatible with alkaline systems.																									EMPICOL® LN9
EMPICOL® LQ 33/TX	MEA Lauryl Sulfate	86	33	Liquid	C12-16	Primary anionic surfactant. High foaming (flash-foam). Better viscosity response than sodium salt. Easier to rinse than sodium salt. pH formulating range: neutral and slightly acidic. Preservative: Methylchloroisothiazolinone (and) Methylisothiazolinone.																						O			EMPICOL® LQ 33/TX
EMPICOL® TL 40/X	TEA Lauryl Sulfate	68	40	Liquid	C12-16	Primary anionic surfactant. High foaming (flash-foam). Better viscosity response than sodium salt. Easier to rinse than sodium salt. pH formulating range: neutral and slightly acidic. Preservative: Methylchloroisothiazolinone (and) Methylisothiazolinone.																						O		C	EMPICOL® TL 40/X
NANSA® Olefin Sulfonates																																
NANSA® LSS 38/AS	Sodium C14-16 Olefin Sulfonate	Non-vegetable	38	Liquid	C14-16	Primary anionic surfactant. Excellent foaming and detergency. Hard water and electrolyte tolerant. Chemically stable in acidic and alkaline conditions. Free from 1,4-dioxane and EO. Preservative: 2-Bromo-2-Nitropropane-1,3-Diol.																								C	NANSA® LSS 38/AS
NANSA® LSS 38/U	Sodium C14-16 Olefin Sulfonate	Non-vegetable	38	Liquid	C14-16	Primary anionic surfactant. Excellent foaming and detergency properties. Hard water and electrolyte tolerant. Chemically stable in acidic and alkaline conditions. Free from 1,4-dioxane and EO.																								C	NANSA® LSS 38/U
NANSA® Alkylbenzene Sulfonates																																
NANSA® SS 55/I	Sodium Dodecylbenzene Sulfonate	Non-vegetable	55	Soft paste	C10-13	Primary anionic surfactant. Work-horse of many household detergents. High foaming profile. The concentration represents the best compromise between highest active/ease of handling. Chemically stable in acidic and alkaline conditions. Preservative: Methylisothiazolinone (and) Benzylisothiazolinone.																									NANSA® SS 55/I
NANSA® Fatty Acid Salts																																
NANSA® PC 38/F	Potassium Cocoate	100	35	Liquid	C12-18	Primary anionic surfactant with good detergent properties. Low foam profile/foam controller in hard water.														B												NANSA® PC 38/F

Non-vegetable* = naturally derived grade may also be available upon request
O - For active ingredient only
C - Specific Concentration Limit
B - Depends on bleaching agent

Primary Surfactants

EMPICOL® Dried Alkyl Sulfates

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	Product Name
							Foam (soft water)				pH		Performance characteristics									Main application areas							Additional characteristics				
EMPICOL® 0045/B	Sodium Lauryl Sulfate	Non-vegetable*	92	Powder	C12	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.																									C	EMPICOL® 0045/B
EMPICOL® CZ/N	Sodium Coco Sulfate	100	92	Powder	C12-18	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties. Low free alkalinity level.																									C	EMPICOL® CZ/N
EMPICOL® LX/B	Sodium Lauryl Sulfate	100	92	Powder	C12-16	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.																									C	EMPICOL® LX/B
EMPICOL® LX/B/MB	Sodium Lauryl Sulfate	100	92	Powder	C12-16	Mass Balance RSPO Certified. Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.																									C	EMPICOL® LX/B/MB
EMPICOL® LX/N	Sodium Lauryl Sulfate	100	92	Powder	C12-16	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties. Low free alkalinity level.																									C	EMPICOL® LX/N
EMPICOL® LXV/B	Sodium Lauryl Sulfate	100	92	Needles	C12-16	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.																									C	EMPICOL® LXV/B
EMPICOL® LXV/N	Sodium Lauryl Sulfate	100	92	Needles	C12-16	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties. Low free alkalinity level.																									C	EMPICOL® LXV/N
EMPICOL® LZ/B	Sodium Lauryl Sulfate	100	92	Powder	C12-18	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.																								C	C	EMPICOL® LZ/B
EMPICOL® LZ/N	Sodium Lauryl Sulfate	100	92	Powder	C12-18	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties. Low free alkalinity level.																								C	C	EMPICOL® LZ/N
EMPICOL® LZ/N/MB	Sodium Lauryl Sulfate	100	92	Powder	C12-18	Mass Balance RSPO Certified. Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties. Low free alkalinity level.																								C	C	EMPICOL® LZ/N/MB
EMPICOL® LZV/B	Sodium Lauryl Sulfate	100	92	Needles	C12-18	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.																								C	C	EMPICOL® LZV/B
EMPICOL® LZV/B/MB	Sodium Lauryl Sulfate	100	92	Needles	C12-18	Mass Balance RSPO Certified. Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.																								C	C	EMPICOL® LZV/B/MB
EMPICOL® LZV/BE	Sodium Lauryl Sulfate	100	92	Needles	C12-18	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties. Optimized physical form for an improved product handling.																								C	C	EMPICOL® LZV/BE
EMPICOL® LZV/BEP	Sodium Lauryl Sulfate	100	92	Needles	C12-18	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties. Optimized physical form for an improved product handling.																								C	C	EMPICOL® LZV/BEP

Non-vegetable* = naturally derived grade may also be available upon request
C - Specific Concentration Limit

Primary Surfactants

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam (soft water): Foam booster	Flash foam	Stable foam	Low foam	pH: Acid stable	Alkaline stable	Performance characteristics: Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Main application areas: Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	Additional characteristics: MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
EMPICOL® Dried Alkyl Sulfates (cont)																																
EMPICOL® LZV/N	Sodium Lauryl Sulfate	100	92	Needles	C12-18	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties. Low free alkalinity level.		■				■		■		■				■				■	■	■	■	■			C	C	EMPICOL® LZV/N
EMPICOL® LZV/NEP	Sodium Lauryl Sulfate	100	92	Needles	C12-18	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties. Optimized physical form for an improved product handling.		■				■		■		■				■				■	■	■	■	■			C	C	EMPICOL® LZV/NEP
EMPICOL® LZV/N/MB	Sodium Lauryl Sulfate	100	92	Needles	C12-18	Mass Balance RSPO Certified. Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties. Low free alkalinity level.		■				■		■		■				■				■	■	■	■	■	■	■	C	C	EMPICOL® LZV/N/MB
NANSA® Dried Alkylbenzene Sulfonates																																
NANSA® HS 80/NPF	Sodium Dodecylbenzene Sulfonate (Contains Citrates)	Non-vegetable	80	Powder	C10-13	Primary anionic surfactant. Excellent foaming and detergency properties. Chemically stable in acidic and alkaline conditions. Ideal for toilet blocks production.		■	■					■						■				■	■	■	■	■					NANSA® HS 80/NPF
NANSA® HS 85/NPF	Sodium Dodecylbenzene Sulfonate (Contains Citrates)	Non-vegetable	85	Powder	C10-13	Primary anionic surfactant. Excellent foaming and detergency properties. Chemically stable in acidic and alkaline conditions. Ideal for toilet blocks production.		■	■					■						■				■	■	■	■	■					NANSA® HS 85/NPF
NANSA® HS 90/NPF	Sodium Dodecylbenzene Sulfonate (Contains Citrates)	Non-vegetable	90	Powder	C10-13	Primary anionic surfactant. Excellent foaming and detergency properties. Chemically stable in acidic and alkaline conditions. Ideal for toilet blocks production.		■	■					■						■				■	■	■	■	■					NANSA® HS 90/NPF
NANSA® HS 80/S	Sodium Dodecylbenzene Sulfonate (Contains Phosphate)	Non-vegetable	80	Powder	C10-13	Primary anionic surfactant. Excellent foaming and detergency properties. Chemically stable in acidic and alkaline conditions.		■	■					■						■				■	■	■	■	■					NANSA® HS 80/S
NANSA® HS 85/S	Sodium Dodecylbenzene Sulfonate (Contains Phosphate)	Non-vegetable	85	Powder	C10-13	Primary anionic surfactant. Excellent foaming and detergency properties. Chemically stable in acidic and alkaline conditions.		■	■					■						■				■	■	■	■	■					NANSA® HS 85/S
NANSA® HS 90/S	Sodium Dodecylbenzene Sulfonate (Contains Phosphate)	Non-vegetable	90	Powder	C10-13	Primary anionic surfactant. Excellent foaming and detergency properties. Chemically stable in acidic and alkaline conditions.		■	■					■						■				■	■	■	■	■					NANSA® HS 90/S
NANSA® Dried Olefin Sulfonates																																
NANSA® LSS 480/H	Sodium C14-16 Olefin Sulfonate	Non-vegetable	80	Powder	C14-16	Primary anionic surfactant. Excellent foaming and detergency. Hard water and electrolyte tolerant. Chemically stable in acidic and alkaline conditions.		■	■					■					■		■			■	■	■	■	■				C	NANSA® LSS 480/H
NANSA® LSS 495/H	Sodium C14-16 Olefin Sulfonate	Non-vegetable	95	Powder	C14-16	Primary anionic surfactant. Excellent foaming and detergency. Hard water and electrolyte tolerant. Chemically stable in acidic and alkaline conditions.		■	■					■					■		■			■	■	■	■	■				C	NANSA® LSS 495/H
NANSA® LSS 495/V	Sodium C14-16 Olefin Sulfonate	Non-vegetable	95	Needles	C14-16	Primary anionic surfactant. Excellent foaming and detergency. Hard water and electrolyte tolerant. Chemically stable in acidic and alkaline conditions. Optimized physical form for an improved product handling.		■	■					■					■		■			■	■	■	■	■				C	NANSA® LSS 495/V

C - Specific Concentration Limit

Secondary Surfactants

EMPIGEN® Alkyl and Alkylamidopropyl Betaines

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam (soft water)				pH		Performance characteristics									Main application areas						Additional characteristics				
							Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
EMPIGEN® BB	Lauryl Betaine	76	30	Liquid	C12-14	Amphoteric co-surfactant. Compatible with anionics, non-ionics and cationics. Efficient foam booster and stabiliser. Good tolerance to hard water and soap. Useful thickening properties. Chemically and physically stable over a wide pH range.																											EMPIGEN® BB
EMPIGEN® BB/HP	Lauryl Betaine (Low salt)	76	30	Liquid	C12-14	Amphoteric co-surfactant. Compatible with anionics, non-ionics and cationics. Efficient foam booster and stabiliser. Good tolerance to hard water and soap. Chemically and physically stable over a wide pH range. NaCl content is below 0,5%. Compatible with electrolyte sensitive ingredients.																									EMPIGEN® BB/HP
EMPIGEN® BS/FE	Cocamidopropyl Betaine	66	30	Liquid	C12-18	Amphoteric co-surfactant. Compatible with anionics, non-ionics and cationics. Efficient foam booster and stabiliser. Good tolerance to hard water and soap. Useful thickening properties. Chemically and physically stable over a wide pH range. Methanol and glycerol free.						**																			EMPIGEN® BS/FE
EMPIGEN® BS/FE/MB	Cocamidopropyl Betaine	66	30	Liquid	C12-18	Mass Balance/RSPO certified. Amphoteric co-surfactant. Compatible with anionics, non-ionics and cationics. Efficient foam booster and stabiliser. Good tolerance to hard water and soap. Useful thickening properties. Chemically and physically stable over a wide pH range. Methanol and glycerol free.						**																			EMPIGEN® BS/FE/MB
EMPIGEN® BS/H50	Cocamidopropyl Betaine	66	35	Liquid	C12-18	Amphoteric co-surfactant. Compatible with anionics, non-ionics and cationics. Efficient foam booster and stabiliser. Good tolerance to hard water and soap. Useful thickening properties. Chemically and physically stable over a wide pH range. Higher CAPB content. Free from methanol, glycerol and additives that may give undesired side effects during formulation work.						**																			EMPIGEN® BS/H50
EMPIGEN® BS/H50/MB	Cocamidopropyl Betaine	66	35	Liquid	C12-18	Mass Balance/RSPO certified. Amphoteric co-surfactant. Compatible with anionics, non-ionics and cationics. Efficient foam booster and stabiliser. Good tolerance to hard water and soap. Useful thickening properties. Chemically and physically stable over a wide pH range. Higher CAPB content. Free from methanol, glycerol and additives that may give undesired side effects during formulation work.						**																			EMPIGEN® BS/H50/MB
EMPIGEN® BS/HI	Cocamidopropyl Betaine	66	30	Liquid	C12-18	Amphoteric co-surfactant. Compatible with anionics, non-ionics and cationics. Efficient foam booster and stabiliser. Good tolerance to hard water and soap. Useful thickening properties. Chemically and physically stable over a wide pH range. Methanol and glycerol free. Neutral pH. Preservative: Methylisothiazolinone (and) Benzylisothiazolinone.						**																	O		EMPIGEN® BS/HI

O - For active ingredient only
** - Limited

Secondary Surfactants

EMPIGEN® Alkyl Amphoacetates and Amphodiacetates

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	Product Name
							Foam (soft water)				pH		Performance characteristics									Main application areas							Additional characteristics				
EMPIGEN® CDL 30/J/35	Sodium Lauroamphoacetate	66	35	Liquid	C12	Amphoteric co-surfactant. Compatible with anionic, non-ionic and cationic surfactants. Good quality of foam even with soap and hard water. Outstanding mildness. Potential to form ion-pair complexes and increase performance of cationic surfactants. Foam profile and viscosity response are influenced by pH.						**																	C		EMPIGEN® CDL 30/J/35
EMPIGEN® CDL 60/P	Sodium Lauroamphoacetate	66	35	Liquid	C12	Amphoteric co-surfactant. Compatible with anionic, non-ionic and cationic surfactants. Good quality of foam even with soap and hard water. Outstanding mildness. Potential to form ion-pair complexes and increase performance of cationic surfactants. Foam profile and viscosity response are influenced by pH.						**																	C		EMPIGEN® CDL 60/P
EMPIGEN® CDR 60	Sodium Cocoamphoacetate	69	40	Liquid	C8-18	Amphoteric co-surfactant. Compatible with anionic, non-ionic and cationic surfactants. Good quality of foam even with soap and hard water. Outstanding mildness. Potential to form ion-pair complexes and increase performance of cationic surfactants. Foam profile and viscosity response are influenced by pH.						**																			EMPIGEN® CDR 60
EMPIGEN® 5151	Disodium Cocoamphodiacetate	66	50	Liquid	C8-18	Amphoteric co-surfactant. Compatible with anionic, non-ionic and cationic surfactants. Good quality of foam even with soap and hard water. Outstanding mildness. Potential to form ion-pair complexes and increase performance of cationic surfactants. Foam profile and viscosity response are influenced by pH.						**																			EMPIGEN® 5151
EMPIGEN® 5151/MB	Disodium Cocoamphodiacetate	66	50	Liquid	C12-18	Mass Balance/RSPO certified. Amphoteric co-surfactant. Compatible with anionic, non-ionic and cationic surfactants. Good quality of foam even with soap and hard water. Outstanding mildness. Potential to form ion-pair complexes and increase performance of cationic surfactants. Foam profile and viscosity response are influenced by pH.						**																			EMPIGEN® 5151/MB
EMPIGEN® CDR 2M	Sodium Cocoamphoacetate (and) Disodium Cocoamphodiacetate	66	50	Liquid	C12-18	Amphoteric co-surfactant. Compatible with anionic, non-ionic and cationic surfactants. Good quality of foam even with soap and hard water. Outstanding mildness. Potential to form ion-pair complexes and increase performance of cationic surfactants. Foam profile and viscosity response are influenced by pH.						**																			EMPIGEN® CDR 2M
EMPIGEN® CDR 2M/MB	Sodium Cocoamphoacetate (and) Disodium Cocoamphodiacetate	66	50	Liquid	C12-18	Mass Balance/RSPO certified. Amphoteric co-surfactant. Compatible with anionic, non-ionic and cationic surfactants. Good quality of foam even with soap and hard water. Outstanding mildness. Potential to form ion-pair complexes and increase performance of cationic surfactants. Foam profile and viscosity response are influenced by pH.						**																			EMPIGEN® CDR 2M/MB

C - Specific Concentration Limit
** - Limited

Secondary Surfactants

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam (soft water): Foam booster	Foam (soft water): Flash foam	Foam (soft water): Stable foam	Foam (soft water): Low foam	pH: Acid stable	pH: Alkaline stable	Performance characteristics: Viscosity booster	Performance characteristics: Detergency	Performance characteristics: Wetting	Performance characteristics: Emulsification	Performance characteristics: Degreasing	Performance characteristics: Electrolyte tolerant	Performance characteristics: Hard water tolerant	Performance characteristics: Bleach compatibility	Performance characteristics: Cold temperature compatibility	Main application areas: Manual dishwash	Main application areas: Automatic dishwash	Main application areas: Surface care	Main application areas: Toilet care	Main application areas: Laundry	Main application areas: Car care	Additional characteristics: MB/RSPO certified	Additional characteristics: Ecolabel	Additional characteristics: Label free on product as is	Additional characteristics: Corrosive-symbol free	Product Name
EMPICOL® Alkyl Ether Carboxylic Acids and Salts																																
EMPICOL® CVE	Capryleth-6 Carboxylic Acid	Non-vegetable	87	Liquid	C8	Anionic surfactant. Low foaming. Good wetting agent. Highly compatible with electrolytes, oxidizing agents, acid and alkali. Excellent lime scum removal properties.		●			●	●			●		●	●	●	●	●			●	●	●	●						EMPICOL® CVE
EMPICOL® CBJ	Laureth-11 Carboxylic Acid	37	86	Liquid	C12-16	Anionic surfactant. High volume and high quality foam profile also in hard water. Good detergency. Good dermatology. Highly compatible with electrolytes, oxidizing agents, acid and alkali. Hydrotropic effect. Excellent lime scum removal properties.	●	●	●		●	●		●			●	●	●	●		●		●	●	●	●				EMPICOL® CBJ
EMPICOL® CED 5	Laureth-5 Carboxylic Acid	54	92	Liquid	C12-16	Anionic surfactant. High volume and high quality foam profile also in hard water. Good detergency. Good dermatology. Highly compatible with electrolytes, oxidizing agents, acid and alkali. Excellent lime soap dispersing properties.	●	●	●		●	●		●			●	●	●	●		●		●	●	●	●				EMPICOL® CED 5
EMPICOL® CED 5S	Sodium Laureth-5 Carboxylate	54	22	Liquid	C12-16	Anionic surfactant. High volume and high quality foam profile also in hard water. Good detergency. Good dermatology. Highly compatible with electrolytes, oxidizing agents, acid and alkali. Excellent lime soap dispersing properties. Preservative: Methylchloroisothiazolinone (and) Methylisothiazolinone.	●	●	●		●	●		●			●	●	●	●		●		●	●	●	●				EMPICOL® CED 5S
EMPICOL® Alkyl Ether Sulfosuccinates and EMPIMIN® Alkyl Sulfosuccinates																																
EMPICOL® SDD/Y	Disodium Laureth-3 Sulfosuccinate	56	33	Liquid	C12-16	Anionic surfactant exceptionally mild to skin. Used in conjunction with anionic, nonionic and amphoteric surfactants. Good foaming characteristics. Formulating range of pH 5-8. Good tolerance to hard water. Low salt viscosity response. Preservative: Methylchloroisothiazolinone (and) Methylisothiazolinone.		●	●							●				●				●								EMPICOL® SDD/Y
EMPIMIN® OP 70	Diethylhexyl Sodium Sulfosuccinate (and) Propylene Glycol	Non-vegetable	72	Liquid	C8	Anionic surfactant with excellent wetting over a broad temperature range. Excellent emulsification properties. Excellent dispersing effect both in aqueous and non-aqueous dispersions. Good foaming characteristics. Hydrotropic effect. Anti-fog properties on glass and acrylates.		●							●	●							●		●						EMPIMIN® OP 70
EMPIMIN® OT	Diethylhexyl Sodium Sulfosuccinate (and) Ethanol	Non-vegetable	60	Liquid	C8	Anionic surfactant with excellent wetting over a broad temperature range. Excellent emulsification properties. Excellent dispersing effect both in aqueous and non-aqueous dispersions. Good foaming characteristics. Hydrotropic effect. Anti-fog properties on glass and acrylates.		●							●	●							●		●						EMPIMIN® OT

Secondary Surfactants

EMPIGEN® Amine Oxides

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam (soft water): Foam booster	Flash foam	Stable foam	Low foam	pH: Acid stable	Alkaline stable	Performance characteristics: Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Main application areas: Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	Additional characteristics: MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
EMPIGEN® OB	Lauramine Oxide	86	30	Liquid	C12-14	Cationic surfactant in acidic conditions. Non-ionic in neutral and alkaline systems. Combination with primary anionic surfactants gives excellent detergency. Good thickening and foam boosting properties. Reduces potential irritation of anionics. Chemically stable to acid, alkali and oxidants.		●	●			●	●	●		●	●	●	●	●												EMPIGEN® OB
EMPIGEN® OB/MB	Lauramine Oxide	86	30	Liquid	C12-14	Mass Balance/RSPO certified. Cationic surfactant in acidic conditions. Non-ionic in neutral and alkaline systems. Combination with primary anionic surfactants gives excellent detergency. Good thickening and foam boosting properties. Reduces potential irritation of anionics. Chemically stable to acid, alkali and oxidants.		●	●			●	●	●		●	●	●	●	●												EMPIGEN® OB/MB
EMPIGEN® OD	C12-18 Alkyldimethylamine Oxide	88	30	Liquid	C12-18	Cationic surfactant in acidic conditions. Non-ionic in neutral and alkaline systems. Combination with primary anionic surfactants gives excellent detergency. Good thickening and foam boosting properties. Reduces potential irritation of anionics. Chemically stable to acid, alkali and oxidants. Ideal for thickened bleach systems.		●	●			●	●	●		●	●	●	●	●												EMPIGEN® OD
EMPIGEN® OD/MB	C12-18 Alkyldimethylamine Oxide	88	30	Liquid	C12-18	Mass Balance/RSPO certified. Cationic surfactant in acidic conditions. Non-ionic in neutral and alkaline systems. Combination with primary anionic surfactants gives excellent detergency. Good thickening and foam boosting properties. Reduces potential irritation of anionics. Chemically stable to acid, alkali and oxidants. Ideal for thickened bleach systems.		●	●			●	●	●		●	●	●	●	●												EMPIGEN® OD/MB
EMPIGEN® OH 25	Myristamine Oxide	88	25	Liquid	C14	Cationic surfactant in acidic conditions. Non-ionic in neutral and alkaline systems. Combination with primary anionic surfactants gives excellent detergency. Good thickening and foam boosting properties. Reduces potential irritation of anionics. Chemically stable to acid, alkali and oxidants.		●	●			●	●	●		●	●	●	●	●												EMPIGEN® OH 25
EMPIGEN® OS/A	Cocamidopropyl Amine Oxide	73	30	Liquid	C12-18	Cationic surfactant in acidic conditions. Non-ionic in neutral and alkaline systems. Combination with primary anionic surfactants gives excellent detergency. Good thickening and foam boosting properties. Reduces potential irritation of anionics. Chemically stable to acid and alkali.		●	●			●	●	●		●	●	●	●													EMPIGEN® OS/A

Specialty Cationics

EMPIGEN® Anti-bacterial and Softening Agents

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
							Foam (soft water)				pH		Performance characteristics									Main application areas							Additional characteristics				
EMPIGEN® BAC 50	Benzalkonium Chloride	58	50	Liquid	C12-14	Readily biodegradable cationic surfactant with biocidal properties. Compatible with amphoteric and nonionic surfactants. Incompatible with anionic surfactants. Readily soluble in water, lower alcohols, glycols and glycol ethers. Stable both in acidic and alkaline media. Best efficacy around pH 9. Used in cooling water and swimming pools. Very effective against gram positive bacteria.							■					■	■	■				■								EMPIGEN® BAC 50
EMPIGEN® BAC 80	Benzalkonium Chloride (and) glycol ether	58	80	Liquid	C12-14	Readily biodegradable cationic surfactant with biocidal properties. Compatible with amphoteric and nonionic surfactants. Incompatible with anionic surfactants. Readily soluble in water, lower alcohols, glycols and glycol ethers. Stable both in acidic and alkaline media. Best efficacy around pH 9. Used in cooling water and swimming pools. Very effective against gram positive bacteria.							■					■	■	■				■								EMPIGEN® BAC 80
EMPIGEN® HBC 40	Hydroxyethyl Laurdimonium Chloride	76	40	Liquid	C12-14	Readily biodegradable cationic surfactant compatible with anionics. Improves emulsification, detergency, thickening and foaming. Optimises surface tension reduction. Enables adhesion to some surfaces. Gives some conditioning behaviour.							■			■	■	■	■	■		■	■	■	■	■	■					EMPIGEN® HBC 40

Solvents

ACTIVEMOL® Glycerine Carbonates

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
							Foam (soft water)				pH		Performance characteristics									Main application areas							Additional characteristics				
ACTIVEMOL® Glycerine Carbonate	Hydroxypropylene Carbonate	75	100	Liquid	-	Readily biodegradable, VOC free, non-flammable solvent. Ideal for non-aqueous systems.																		■								ACTIVEMOL® Glycerine Carbonate

Rheology Modifiers

ELTESOL® Hydrotropes

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam (soft water): Foam booster	Foam (soft water): Flash foam	Foam (soft water): Stable foam	Foam (soft water): Low foam	pH: Acid stable	pH: Alkaline stable	Performance characteristics: Viscosity booster	Performance characteristics: Detergency	Performance characteristics: Wetting	Performance characteristics: Emulsification	Performance characteristics: Degreasing	Performance characteristics: Electrolyte tolerant	Performance characteristics: Hard water tolerant	Performance characteristics: Bleach compatibility	Performance characteristics: Cold temperature compatibility	Main application areas: Manual dishwash	Main application areas: Automatic dishwash	Main application areas: Surface care	Main application areas: Toilet care	Main application areas: Laundry	Main application areas: Car care	Additional characteristics: MB/RSPO certified	Additional characteristics: Ecolabel	Additional characteristics: Label free on product as is	Additional characteristics: Corrosive-symbol free	
ELTESOL® PSC 40	Potassium Cumenesulfonate (and) Sodium Cumenesulfonate	Non-vegetable	40	Liquid	-	Hydrotrope. Non-flammable, non-toxic alternative to solvents. Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics. Improved cold storage properties.												■	■	■	■	■											ELTESOL® PSC 40
ELTESOL® SC 40	Sodium Cumenesulfonate	Non-vegetable	40	Liquid	-	Hydrotrope. Non-flammable, non-toxic alternative to solvents. Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics.												■	■	■											ELTESOL® SC 40
ELTESOL® SC 93	Sodium Cumenesulfonate	Non-vegetable	93	Powder	-	Hydrotrope. Non-flammable, non-toxic alternative to solvents. Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics.												■	■	■											ELTESOL® SC 93
ELTESOL® SC Pellets	Sodium Cumenesulfonate	Non-vegetable	88	Pellets	-	Hydrotrope. Non-flammable, non-toxic alternative to solvents. Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics.												■	■	■											ELTESOL® SC Pellets
ELTESOL® ST 90	Sodium Toluenesulfonate	Non-vegetable	90	Powder	-	Hydrotrope. Non-flammable, non-toxic alternative to solvents. Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics.												■	■	■											ELTESOL® ST 90
ELTESOL® ST 93 Pellets	Sodium Toluenesulfonate	Non-vegetable	93	Pellets	-	Hydrotrope. Non-flammable, non-toxic alternative to solvents. Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics.												■	■	■											ELTESOL® ST 93 Pellets
ELTESOL® SX 30	Sodium Xylenesulfonate	Non-vegetable	30	Liquid	-	Hydrotrope. Non-flammable, non-toxic alternative to solvents. Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics.												■	■	■	■										ELTESOL® SX 30
ELTESOL® SX 33	Sodium Xylenesulfonate	Non-vegetable	33	Liquid	-	Hydrotrope. Non-flammable, non-toxic alternative to solvents. Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics.												■	■	■	■										ELTESOL® SX 33
ELTESOL® SX 40	Sodium Xylenesulfonate	Non-vegetable	40	Liquid	-	Hydrotrope. Non-flammable, non-toxic alternative to solvents. Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics.												■	■	■											ELTESOL® SX 40
ELTESOL® SX 93	Sodium Xylenesulfonate	Non-vegetable	93	Powder	-	Hydrotrope. Non-flammable, non-toxic alternative to solvents. Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics.												■	■	■											ELTESOL® SX 93
ELTESOL® SX Pellets	Sodium Xylenesulfonate	Non-vegetable	88	Pellets	-	Hydrotrope. Non-flammable, non-toxic alternative to solvents. Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics.												■	■	■											ELTESOL® SX Pellets

Solubilizers – Emulsifiers

EMPILAN® Ethoxylated Alcohols

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
							Foam (soft water)				pH		Performance characteristics									Main application areas							Additional characteristics				
EMPILAN® KA 5	Deceth-5	Non-vegetable*	100	Liquid	C10-12	Non-ionic surfactant. Stable over a wide range of pH. Shorter alkyl chain gives greater solubility and tolerance to electrolyte, with excellent wetting and foaming power. Ideal for surface cleaning.																											EMPILAN® KA 5
EMPILAN® KA 5/90	Deceth-5	Non-vegetable*	90	Liquid	C10-12	Non-ionic surfactant. Stable over a wide range of pH. Shorter alkyl chain gives greater solubility and tolerance to electrolyte, with excellent wetting and foaming power. Ideal for surface cleaning. Improved cold storage properties.																									EMPILAN® KA 5/90
EMPILAN® KCL 7	C12-15 Pareth-7	Non-vegetable	100	Liquid	C12-15	Non-ionic surfactant. Stable over a wide range of pH. The specific alkyl chain and the mid-range ethoxylation degree give very good wetting and detergency. Work-horses of surface cleaners, laundry, dish wash, etc.																									EMPILAN® KCL 7
EMPILAN® KCL 7/90	C12-15 Pareth-7	Non-vegetable	90	Liquid	C12-15	Non-ionic surfactant. Stable over a wide range of pH. The specific alkyl chain and the mid-range ethoxylation degree give very good wetting and detergency. Work-horses of surface cleaners, laundry, dish wash, etc. Improved cold storage properties.																									EMPILAN® KCL 7/90
EMPILAN® KCL 9/85	C12-15 Pareth-9	Non-vegetable	85	Liquid	C12-15	Non-ionic surfactant. Stable over a wide range of pH. The specific alkyl chain and the mid-range ethoxylation degree give good wetting and detergency. Work-horses of surface cleaners, laundry, dish wash, etc. Improved cold storage properties.																									EMPILAN® KCL 9/85
EMPILAN® KCL 11	C12-15 Pareth-11	Non-vegetable	100	Solid	C12-15	Non-ionic surfactant. Stable over a wide range of pH. The specific alkyl chain and the mid-range ethoxylation degree give good wetting and detergency. Work-horses of surface cleaners, laundry, dish wash, etc. Useful to solubilize a wide range of perfumes.																									EMPILAN® KCL 11
EMPILAN® KCL 11/90	C12-15 Pareth-11	Non-vegetable	90	Liquid	C12-15	Non-ionic surfactant. Stable over a wide range of pH. The specific alkyl chain and the mid-range ethoxylation degree give good wetting and detergency. Work-horses of surface cleaners, laundry, dish wash, etc. Useful to solubilize a wide range of perfumes. Improved cold storage properties.																									EMPILAN® KCL 11/90
EMPILAN® KI 6	Trideceth-6	Non-vegetable	100	Liquid	C11-14	Non-ionic surfactant. Stable over a wide range of pH. Highly branched iso-alcohol ethoxylate with excellent emulsification/wetting properties. Low foam profile.																									EMPILAN® KI 6
EMPILAN® KI 6.5	Trideceth-7	Non-vegetable	100	Liquid	C11-14	Non-ionic surfactant. Stable over a wide range of pH. Highly branched iso-alcohol ethoxylate with excellent emulsification/wetting properties. Medium foam profile.																									EMPILAN® KI 6.5
EMPILAN® KI 8	Trideceth-8	Non-vegetable	100	Liquid	C11-14	Non-ionic surfactant. Stable over a wide range of pH. Highly branched iso-alcohol ethoxylate with excellent emulsification/wetting properties. Medium to high foam profile.																									EMPILAN® KI 8
EMPILAN® KR 2.5	C9-11 Pareth-3	Non-vegetable	100	Liquid	C9-11	Non-ionic surfactant. Stable over a wide range of pH. Poor aqueous solubility. Used as anti-foam and viscosity builder.																									EMPILAN® KR 2.5
EMPILAN® KR 5	C9-11 Pareth-5	Non-vegetable	100	Liquid	C9-11	Non-ionic surfactant. Stable over a wide range of pH. Shorter alkyl chain gives greater solubility and tolerance to electrolyte, with very good wetting and excellent foaming power. Ideal for surface cleaning.																									EMPILAN® KR 5

Non-vegetable* = naturally derived grade may also be available upon request

Solubilizers – Emulsifiers

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
							Foam (soft water)				pH		Performance characteristics									Main application areas							Additional characteristics				
EMPILAN® Ethoxylated Alcohols (cont)																																
EMPILAN® KR 6	C9-11 Pareth-6	Non-vegetable	100	Liquid	C9-11	Non-ionic surfactant. Stable over a wide range of pH. Shorter alkyl chain gives greater solubility and tolerance to electrolyte, with very good wetting and excellent foaming power. Ideal for surface cleaning.	■	■	■		■	■			■		■	■	■	■				■	■	■	■						EMPILAN® KR 6
EMPILAN® KR 6/90	C9-11 Pareth-6	Non-vegetable	90	Liquid	C9-11	Non-ionic surfactant. Stable over a wide range of pH. Shorter alkyl chain gives greater solubility and tolerance to electrolyte, with very good wetting and excellent foaming power. Ideal for surface cleaning. Improved cold storage properties.	■	■	■		■	■			■		■	■	■	■	■			■	■	■	■						EMPILAN® KR 6/90
EMPILAN® KR 8	C9-11 Pareth-8	Non-vegetable	100	Liquid	C9-11	Non-ionic surfactant. Stable over a wide range of pH. Shorter alkyl chain gives greater solubility and tolerance to electrolyte, with good wetting and foaming power. Ideal for surface cleaning.	■	■	■		■	■			■		■	■	■	■				■	■	■	■						EMPILAN® KR 8
EMPILAN® KT 7/80	Deceth-7	Non-vegetable*	80	Liquid	C10	Non-ionic surfactant. Stable over a wide range of pH. Shorter alkyl chain gives greater solubility and tolerance to electrolyte, with good wetting and excellent foaming power. Ideal for surface cleaning. Improved cold storage properties.	■	■	■		■	■			■		■	■	■	■	■			■	■	■	■						EMPILAN® KT 7/80
EMPILAN® ME10-CN	Coconut Methyl Ester Ethoxylate (10 EO)	39	100	Liquid	C8-18	Non-ionic surfactant. Excellent emulsifier and detergent. Low toxicity (not classified also according the CLP). Lower foaming profile compared to conventional fatty alcohol ethoxylates. It doesn't meet gel phases when diluted in water. Ideal for super-concentrated formulations.								■		■	■						■		■		■					EMPILAN® ME10-CN
EMPILAN® Fatty Acid Alkanolamides																																
EMPILAN® 2502/MB	Cocamide DEA	77	85	Liquid	C8-18	Mass Balance/RSPO certified. Non-ionic surfactant. Thickening agent. Used to boost stability and volume of foam also in presence of hard water and soap. Useful to solubilize a wide range of perfumes and non-polar compounds. Contains glycerol.	■					**	■	■							■			■		■	■	■	■				EMPILAN® 2502/MB
EMPILAN® CIS	Cocamide MIPA	81	95	Flakes	C8-18	Non-ionic surfactant. Thickening agent. Used to boost stability and volume of foam also in presence of hard water and soap. Useful to solubilize a wide range of perfumes and non-polar compounds.	■					**	■	■							■			■		■	■	■	■		■			EMPILAN® CIS
EMPILAN® 2502	Cocamide DEA	77	85	Liquid	C8-18	Non-ionic surfactant. Thickening agent. Used to boost stability and volume of foam also in presence of hard water and soap. Useful to solubilize a wide range of perfumes and non-polar compounds. Contains glycerol.	■					**	■								■			■		■	■	■	■					EMPILAN® 2502
EMPILAN® CME/T	Cocamide MEA	87	85	Flakes	C8-18	Non-ionic surfactant. Thickening agent. Used to boost stability and volume of foam also in presence of hard water and soap. Useful to solubilize a wide range of perfumes and non-polar compounds. Contains glycerol.	■					**	■								■			■		■	■	■	■					EMPILAN® CME/T

Non-vegetable* = naturally derived grade may also be available upon request
** - Limited

Foam Controllers

EMPILAN® Ethoxylated/Propoxylated Alcohols

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
							Foam (soft water)				pH		Performance characteristics									Main application areas							Additional characteristics				
EMPILAN® PF 7165	PPG-1 C12-15 Pareth-7	Non-vegetable	100	Liquid	C12-15	Readily biodegradable non-ionic surfactant compatible with many common oxidizing and reducing agents and may be formulated with other non-ionic, anionic, amphoteric and cationic surfactants. Produces a relatively unstable foam, that will rapidly die-away and might find use as a wetting agent, detergent or emulsifier in applications that require low foaming characteristics.				■				■	■	■			■	■	■												EMPILAN® PF 7165
EMPILAN® PF 7168	PPG-4-Undeceth-7	Non-vegetable	100	Liquid	C11	Readily biodegradable non-ionic surfactant compatible with many common oxidizing and reducing agents and may be formulated with other non-ionic, anionic, amphoteric and cationic surfactants. Offers the combination of excellent wetting, emulsification and low-foam performance and it is particularly suited for application at ambient or relatively low working temperatures. It is a versatile surfactant that may bring benefits in a wide range of applications, such as surface cleaning. Label free.				■					■			■	■	■	■			■	■	■	■					EMPILAN® PF 7168
EMPILAN® PF 7169	PPG-3-Undeceth-7	Non-vegetable	100	Liquid	C11	Readily biodegradable non-ionic surfactant compatible with many common oxidizing and reducing agents and may be formulated with other non-ionic, anionic, amphoteric and cationic surfactants. It is a versatile low foam surfactant capable of offering excellent wetting performance. It is particularly suited to applications operating at elevated temperatures or to processes with short cycle times. It is a versatile surfactant that may bring benefits is a wide range of applications, such as surface cleaning. Label free.				■					■			■	■	■	■			■	■	■	■					EMPILAN® PF 7169

Plasticizers and Texturizing Agents

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam (soft water): Foam booster	Flash foam	Stable foam	Low foam	pH: Acid stable	Alkaline stable	Performance characteristics: Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Main application areas: Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	Additional characteristics: MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
LAUREX® Fatty Alcohols																																
LAUREX® CS	Cetearyl Alcohol	100	100	Flakes	C16-18	Primary fatty alcohol. Viscosity, consistency modifier. It helps to give controlled release of active ingredients and perfumes.							■							■	■					■				■	■	■	LAUREX® CS
EMPIWAX® Self-Emulsifying waxes																																
EMPIWAX® CL	Cetearyl Alcohol (and) Ceteareth-25	85	100	Flakes	-	Self-emulsifying wax with high electrolyte tolerance, dispersing, thickening and solubilizing properties.							■			■		■		■	■				■				■			EMPIWAX® CL
EMPIWAX® SK/BP	Cetearyl Alcohol (and) Sodium Lauryl Sulfate	100	100	Flakes	-	Self-emulsifying wax with high electrolyte tolerance, dispersing, thickening and solubilizing properties.						■	■			■		■		■	■				■				■			EMPIWAX® SK/BP

Performance Concentrates

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam (soft water): Foam booster	Flash foam	Stable foam	Low foam	pH: Acid stable	Alkaline stable	Performance characteristics: Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Main application areas: Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	Additional characteristics: MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
EMPIPEARL® Pearl Concentrates																																
EMPIPEARL® XA 200/H	Sodium Laureth Sulfate (and) Glycol Cetearate (and) Cocamidopropyl Betaine	83	41	Viscous liquid	-	Blend of anionic, non-ionic and amphoteric surfactants. No need of heating equipment with consequent production time reduction. Preservative: Benzyl alcohol (and) Methylchloroisothiazolinone (and) Methylisothiazolinone.	■	■	■			**											■										EMPIPEARL® XA 200/H
EMPIPEARL® XA 200/X	Sodium Laureth Sulfate (and) Glycol Cetearate (and) Cocamidopropyl Betaine	83	41	Viscous liquid	-	Blend of anionic, non-ionic and amphoteric surfactants. No need of heating equipment with consequent production time reduction. Vegetable derived raw materials only. Preservative: Methylchloroisothiazolinone (and) Methylisothiazolinone.	■	■	■			**											■			■							EMPIPEARL® XA 200/X
EMPIPEARL® XA 300/X	Sodium Laureth Sulfate (and) Glycol Distearate (and) Cocamide MEA (and) Cocamidopropyl Betaine	81	39	Viscous liquid	-	Blend of anionic, non-ionic and amphoteric surfactants. No need of heating equipment with consequent production time reduction. Preservative: Methylchloroisothiazolinone (and) Methylisothiazolinone.	■	■	■			**											■			■							EMPIPEARL® XA 300/X

** - Limited

Performance Concentrates

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam (soft water): Foam booster	Flash foam	Stable foam	Low foam	pH: Acid stable	Alkaline stable	Performance characteristics: Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Main application areas: Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	Additional characteristics: MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	
EMPIPEARL® Pearl Concentrates (cont)																																
EMPIPEARL® XA 400/X	Glycol Distearate (and) Sodium Laureth Sulfate (and) Cocamide MEA (and) Laureth-10	78	40	Viscous liquid	-	Blend of anionic and non-ionic surfactants. No need of heating equipment with consequent production time reduction. Preservative: Methylchloroisothiazolinone (and) Methylisothiazolinone.						**																				EMPIPEARL® XA 400/X
EMPIPEARL® XA 500/X	Sodium Laureth Sulfate (and) Cocamide DEA (and) Glycol Cetearate	82	44	Viscous liquid	-	Blend of anionic and non-ionic surfactants. No need of heating equipment with consequent production time reduction. Preservative: Methylchloroisothiazolinone (and) Methylisothiazolinone.						**																				EMPIPEARL® XA 500/X
EMPILAN® Esters																																
EMPILAN® EGDS/A	Glycol Distearate	94	100	Flakes	C16-18	Pearlizing agent, opacifier, oil soluble emulsifier and viscosity modifier.																										EMPILAN® EGDS/A
EMPILAN® EGMS	Glycol Cetearate	92	100	Flakes	C16-18	Pearlizing agent, opacifier, oil soluble emulsifier and viscosity modifier.																										EMPILAN® EGMS
EMPICOL® Performance Concentrates																																
EMPICOL® XCT 10	Mild Concentrated Detergent Base	57	55	Fluid paste	-	Concentrated blend of anionic and amphoteric surfactants. Easy to dilute. Optimized detergency and foaming. Application: manual dishwash, laundry liquids and hard surface cleaners. Preservative: Benzyl alcohol (and) Methylchloroisothiazolinone (and) Methylisothiazolinone.																										EMPICOL® XCT 10
EMPICOL® XHL 100	Concentrated Detergent Base	38	55	Fluid paste	-	Concentrated blend of anionic surfactants. Easy to dilute. High volume of flash foam. Good wetting & detergency. Excellent viscosity response. Application: laundry liquid detergents, hand dishwash liquid. Preservative: Methylisothiazolinone (and) Benzylisothiazolinone.						**																				EMPICOL® XHL 100
EMPICOL® XHL 140	Mild Concentrated Detergent Base	10	50	Fluid paste	-	Sulfate-free and EO-free concentrated blend of anionic and amphoteric surfactants. Designed to prepare corrosive-free and label-free detergents. High volume, creamy foam stable in hard water. Very good emulsification power. Application: mild hand dishwash liquids and mild detergents.						**																		C	C	EMPICOL® XHL 140
EMPICOL® XHL 300	Concentrated Laundry Detergent Base	38	67	Fluid paste	-	Concentrated blend of soap, anionic surfactants, non-ionic surfactants, phosphonate and polycarboxylates. Easy to dilute. Low volume of controlled foam suitable for automatic laundry washing machine. Good wetting and detergency. Preservative: 2-Bromo-2-Nitropropane-1,3-Diol.																										EMPICOL® XHL 300
EMPICOL® iDS X10	Low Foam Concentrated Detergent Base	46	70	Fluid paste	-	Concentrated blend of non-ionic surfactant and soap. Easy to dilute. Low volume of controlled foam. Excellent wetting and detergency. Corrosive symbol free. Application: hard surface cleaners, floor cleaners, fine fabric detergents.														B											EMPICOL® iDS X10

** - Limited
B - Depends on bleaching agent
C - Specific Concentration Limit

Performance Concentrates

EMPICOL® Performance Concentrates (cont)

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	Product Name
							Foam (soft water)				pH		Performance characteristics									Main application areas							Additional characteristics				
EMPICOL® VBS D30A	Super-Concentrated Detergent Base	Non-vegetable	88 (Organic Matter)	Liquid	-	Super-concentrated blend of a non-ionic surfactant and a solvent, both of which are vegetable derived, and an anionic surfactant. Specifically developed to prepare hard surface degreasers that work well on tenacious greasy stains that may be difficult to remove with traditional degreasing products.		●	●					●	●	●	●				●			●							EMPICOL® VBS D30A
EMPICOL® VBS L30	Super-Concentrated Detergent Base	27	97 (Organic Matter)	Liquid	-	Super-concentrated blend of an anionic primary surfactant and a plant derived non-ionic surfactant. Specifically developed to prepare laundry detergent concentrates at neutral pH. Due to its extremely low water content, it is compatible with water soluble films and could be used as delivery system for water sensitive ingredients.		●						●	●	●	●								●					EMPICOL® VBS L30

Chelating Agents

ENVIOMET® EDDS

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	Car care	MB/RSPO certified	Ecolabel	Label free on product as is	Corrosive-symbol free	Product Name
							Foam (soft water)				pH		Performance characteristics									Main application areas							Additional characteristics				
ENVIOMET® C140	Trisodium Ethylenediamine Disuccinate	Non-vegetable	37	Liquid	-	Unique readily biodegradable and Eco-label approved chelating agent particularly effective at chelating transition metals in presence of Calcium and Magnesium. Application: stain removal, Peroxide/Peracetic acid stabilization, dye and fabric protection, biocide potentiator, removal of transition metals from surfaces.												●	●	●											ENVIOMET® C140
ENVIOMET® C280	Ethylenediamine Disuccinic Acid	Non-vegetable	80	Powder	-	Free acid form. Unique readily biodegradable and Eco-label approved chelating agent particularly effective at chelating transition metals in presence of Calcium and Magnesium. Application: stain removal, Peroxide/Peracetic acid stabilization, dye and fabric protection, biocide potentiator, removal of transition metals from surfaces.												●	●	●											ENVIOMET® C280

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