THE WHOLE HOME

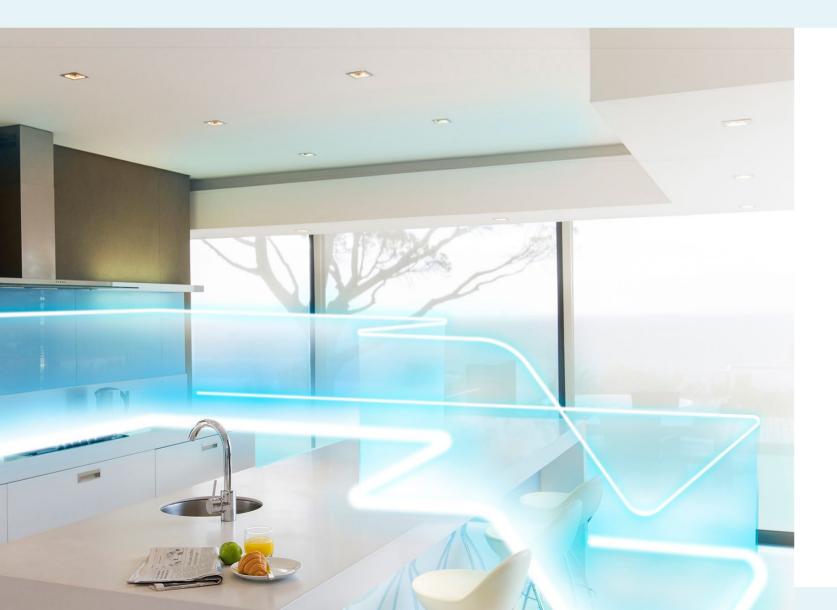
home care ingredients from innospec



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

Primary Surfactants	2
Secondary Surfactants	10
Specialty Cationics	18
Solvents	18
Rheology Modifiers	20
Solubilizers – Emulsifiers	22
Foam Controllers	26
Plasticizers And Texturizing Agents	28
Performance Concentrates	28
Chelating Agents	32



							Fo	am (so	oft wate	er)	рН			Perfo	rmance	e charac	teristics			Mai	in appl	ication	areas		Addit charact		s	
Product Name EMPICOL® A	INCI Name Alkyl Ether Su	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	oam booster	Flash foam	Stable foam	Low foam	9	Alkaline stable	Iscosity booster Petergency	Vetting	mulsification	begreasing lectrolyte tolerant	lard water tolerant	leach compatibility	old temperature compatibility	utomatic dishwash	urface care	Toilet care	Laundry	RSPO certified		Label free on product as is	corrosive-symbol free	
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.		ш.	05		4	4	> L	>	ш						0)	F) 2	0		0	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® A	alkyl Ether Su	lfates																										
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® A	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.																			0		С	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.																			0	С	С	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.																				С	С	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.																				С	С	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



							Fo	am (so	oft wate	er)	pl	Н		Pei	rforma	nce ch	aracteri	stics			Mai	n appl	ication	areas			litional cteristic		
Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	e foam	oam	Acid stable	Alkaline stable	osity booster	gency	sification	egreasing	ctrolyte tolerant	water tolerant	temperature compatibility	al dishwash	itomatic dishwash	ce care	. care	ıdry	care RSPO certified	pel	free on product as is	sive-symbol free	
EMPICOL® A	Alkyl Sulfates	(cont)					Foam	Flash	Stable foar	Low foam	Acid	Alkali	Visco	Wetti	Emul	Degre	Electi	Hard	Bleac	Manu	Autor	Surfa	Toilet		Car care MB/RSPO	Ecola	Label free	Corrosive-	
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.																				0		С	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.																						С	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.																				0			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.																				0		С	EMPICOL® TL 40/X
NANSA® OI	efin Sulfonate	es																											
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.																						С	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.																						С	NANSA® LSS 38/U
NANSA® Alk	kylbenzene S	ulfonates																											
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® Fa	tty 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.													В										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



							Fo	am (sof	t water)	рН		F	Perform	nance cl	naracte	istics			Main a	applicatio	on area	s		ddition: acteris		
Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	oster	E	am	<u> </u>	table	booster	ıcy		ation	e tolerant	er tolerant	ompatibility Derature compatibility	ishwash	c dishwash	care) certified	e on product as is	-symbol free	
EMPICOL® [Dried Alkyl Su	ulfates					Foam boo	Flash foam	Stable foam	Acid stable	Alkaline stable	Viscosity	Detergen	Wetting	Degreasi	Electrolyte to	Hard wate	Bleach co Cold temp	Manual dishwash	Automatic	Surface care Toilet care	Laundry	Car care	MB/RSPO -	Label free	Corrosive-	
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.																				С	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.																				С	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.																				С	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.																				С	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.																				С	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.																				С	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.																				С	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.																			С	С	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.																			С	С	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.													ı						С	С	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.																			С	С	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.																			С	С	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.																			С	С	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.																			С	С	EMPICOL® LZV/BEP

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



							Foar	m (soft	water)		рН		Per	rforman	ce cha	racterist	tics			Main a	applicati	on areas	5		ddition aracteris		
Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	booster	Flash foam Stable foam	e toam oam	Acid stable	Alkaline stable	sity booster	rgency	sification	easing	olyte tolerant	water tolerant	temperature compatibility	Manual dishwash	Automatic dishwash	face care	dry	care	SPO certified	bel free on product as is		
EMPICOL® [Dried Alkyl Su	ulfates (con	t)				Foam	Flash	Low fa	Acids	Alkali	Viscos	Deter	Emuls	Degre	Electr	Blead	Cold t	Manu	Autor	Surface	Laundry	Carc	MB/RSPO	Ecolabel Label free	Corro	
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	С	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	С	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	С	EMPICOL® LZV/N/MB
NANSA® Dr	ied Alkylbenz	zene Sulfo	nates																								
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® Dr	ied Olefin Su	lfonates																									
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.																				С	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.																				С	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.																				С	NANSA® LSS 495/V

C - Specific Concentration Limit

							Fo	am (so	ft wate	r)	рН			Perforr	mance ch	aracteris	stics		1	Main a	pplicatio	n areas			itional cteristic		
Product Name EMPIGEN® A	INCI Name Alkyl and Al	% Naturally derived kylamidop	% active ropyl Be	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	요ㅣ	Low toam	Acid stable Alkaline stable		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	5	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®	ВВ
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.					*:	**												0		EMPIGEN®	BS/HI

Secondary Surfactants

O - For active ingredient only ** - Limited

							Foa	m (sof	ft water	-)	рН			Perform	ance ch	naracteri	stics			Main	applic	ation a	reas		Add charac	itional teristic		
Product Name EMPIGEN® A	INCI Name Alkyl Ampho	% Naturally derived	% active	Appearance at room temperature	length	Features	Foam booster	Flash foam	Stable foam	Low roam Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Degreasing	Electrolyte tolerant	Hard water tolerant	Bleach compatibility Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	MR/RCPO certified		Label free on product as is	Corrosive-symbol free	
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.					**															С		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.					**															С		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

							Fo	am (sof	t water)		рН		Pe	erforma	nce ch	naracter	istics			Main a	pplica	ation a	ireas			itional teristics	
Product Name $ EMPICOL^{ \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $	INCI Name Alkyl Ether Ca	% Naturally derived	% active Acids ar	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	Stable foam Low foam	Acid stable	Alkaline stable	/iscosity booster	Detergency	mulsification	Degreasing	electrolyte tolerant	dard water tolerant	Sleach compatibility Cold temperature compatibility	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	MB/RSPO certified		Label free on product as is Corrosive-symbol free	
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.		ш.	0)]	1	1			> Ш		ш		ш		14	01				Ш		EMPICOL® CVI
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® CB.
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® CEI
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® CEI
EMPICOL®	Alkyl Ether Su	ılfosuccina	ates and	B EMPIMII	V® All	kyl 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® SDI
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
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

							Fo	am (soft	: water))	рН		Р	Perfor	mance	charact	eristics			M	ain ap	plicati	on area	S	c	Additio haracter		
Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	ooster	am	oam		stable	y booster	ency		cation	greasing ectrolyte tolerant	iter tolerant	compatibility	nperature compatibility	ual dishwash	distriction of	or o			O certified		ve-symbol free	
EMPIGEN®	Amine Oxide	es					Foam boost	Flash foam	Stable toam Low foam	Acid stable	Alkaline stable	Viscosit	Deterge	Wetting	Emulsifi	Degrea	Hard wa	Bleach	Cold ter	Manual dist	Automie	Toilet	Laundry	Car care	MB/RSPO	Ecolabel	Corrosive	
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

Secondary Surfactants

							Fo	am (so	oft wate	r)	рΗ			Perfo	rmance	charac	cteristic	CS .			Main a	oplicati	on area	S		Additi haracte			
Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	ooster	oam	foam	am She	0 Ct 2 CT	Sta D	ency	D	ication	ising Ivte tolerant	ater tolerant	compatibility	mperature compatibility	dishwash	atic dishwash	care		Φ	/RSPO certified		ee on br	ve-symbol tree	
EMPIGEN® A	Anti-bacteria	al and Softe	ening A	gents			Foam b	Flash fo	Stable	Low tog	Alkaline	Viscosi	Deterg	Wettin	Emulsi	Degree Flactro	Hardw	Bleach	Cold te	Manua	Autom	Surface Toilet o	Laundr	Car car	MB/RS	Ecolab	Label fre	Corros	
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.																						E	MPIGEN® 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.																						E	MPIGEN® 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.																						E	MPIGEN® HBC 40

Solvents

						Foar	n (soft	water)	рŀ	4		Perform	mance ch	aracteris	tics		N	Main ap	plication	on area	as		Addition aracteris		
Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain Features length	ster	ر ا	E	u u	able	cy		tion	e tolerant	r tolerant mpatibility	erature compatibility	shwash	dishwash				certified	on product as is	mbol free	
ACTIVEMO	L® Glycerine	Carbonate	es			Foam boo	Flash toar	Stable for	Acid stab	Alkaline s	Viscosity in Detergen	Wetting	Emulsifica Degreasir	Electrolyt	Hard wate Bleach co	Cold temp	Manual di	Automatic	Toilet care	Laundry	Car care	MB/RSPC	Ecolabel Label free	Corrosive	
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

							Fo	am (so	ft wate	er)	рН			Perform	nance c	haracte	ristics			Mair	applic	ation a	reas		litional cteristic	S	
Product Name ELTESOL® H	INCI Name ydrotropes	% 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	Manual dishwash	Automatic dishwash	Surface care	Toilet care	Laundry	MB/RSPO certified Ecolabel	Label free on product as is	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

							Fo	am (soft	t water)	рН			Perform	mance	charact	eristics			Ν	∕lain ap	plicatio	n areas	5		dditior racteris		
Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	ster		E	a	able	ooster	,		tion	tolerant	r tolerant	mpatibility	22	hwash	dishwash	ē			certified	on product as is	ool free	
EMPILAN® E	Ethoxylated /	Alcohols					Foam boo	Flash foam	Stable foam	Acid etable	Acid stable Alkaline stable	Viscosity b	Detergeno	Wetting	Emulsificat	Electrolyte	Hard water	Bleach cor	d ten	Manual dis	utoma	Surface car Toilet care	Laundry	Car care	MB/RSPO	Label free	Corrosive	
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 reques

Solubilizers – Emulsifiers

							Fo	am (so	oft wate	r)	рН			Perfor	rmance	charac	teristics	5		Ν	∕lain ap	oplicatio	n areas			ditional acteristi		
Product Name EMPILAN® E	INCI Name Ethoxylated A	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	Foam booster	Flash foam	Stable foam	Low roam	Acid stable Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing Electrolyte tolerant	Hard water tolerant	Bleach compatibility	Cold temperature compatibility		Automatic dishwash	Surface care Toilet care	Laundry	Car care	MD/NSF C certified Ecolabel	Label free on product as is	Corrosive-symbol free	
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.				1																		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® F	atty Acid Alk	kanolamid	es																									
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

							Fo	am (so	oft wa	iter)	р	Н		Pe	erforma	nce cł	haracte	ristics			Ма	n appl	icatior	areas			lditiona acterist		
Product Name EMPILAN® E	INCI Name Ethoxylated/F	% Naturally derived	% active ed Alco	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 MR/PSPO cartified	Mb/Nsi Certified	Label free on product as is	symbol free	
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

							Fo	am (so	oft water)	рН		Pe	rformar	ce charac	cteristic	S		Ма	in app	lication	areas			dditiona acteris		
Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	ster		E	٥	able	oooster	λ:	tion	g stolerant	r tolerant	mpatibility	erature compatibility	snwasn	ıre			٠	Cerumed	on product as is	symbol free	
LAUREX® F	atty Alcohols						Foam boo	Flash foam	Stable foar	Acid stabl	Alkaline st	Viscosity k	Detergen	Emulsifica	Degreasin	Hard wate	Bleach co	Cold temp	Automatic	Surface ca	Toilet care	Laundry	Car care	Frodabel	bel fr	Corrosive	
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-Emulsify	ving waxes																									
EMPIWAX® CL	Cetearyl Alcohol (and) Ceteareth-25	85	100	Flakes	-	Self-emulsifying wax with high electrolyte tolerance, dispersing, thickening and solubilizing properties.																					EMPIWAX® (
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® S

Performance Concentrates

Performance Concentrates

							Fo	am (so	oft water)	рН		Pe	rformar	nce chai	racteristic	cs .		N	lain ap	plicatio	n area	S		Additio aracter		
Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	ster	ر	٤	Φ	able	ooster	χ̈́	tion	0	e tolerant	mpatibility	erature compatibility		dishwash	e L			certified	7	symbol free	,
EMPIPEARL®	Pearl Conce	entrates					Foam boost	Flash foam	4	Acid stable	Alkaline stable	Viscosityk	Detergen	Emulsifica	Degreasin	Electrolyte Hard wate	Bleach co	Cold temp	Manual di	Automatic	Surrace ca Toilet care	Laundry	Car care	MB/RSPO	Ecolabel	Corrosive	
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

							Foa	m (soft	t water)		рН		Perfo	ormance	charac	eristics			Main a	pplicati	on area	ıs		lditiona acterist		
Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	ooster	am	oam	lble ships	aline stable	y booster		cation	greasing ctrolyte tolerant	ater tolerant	compatibility nperature compatibility	dishwash	ıtic dishwash	care) certified	on product as is	symbol free	
EMPIPEARL	Pearl Conce	entrates (d	cont)				Foam b	Flash foam	Stable toam Low foam	Acid stable	Alkaline	Viscosity	Wetting	Emulsifi	Degreas Electroly	Hard wa	Bleach o	Manual	Automatic	Surface Toilet ca	Laundry	Car care	MB/RSPC Ecolabel	Label fre	Corrosive-	
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® E	sters																									
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® P	Performance	Concentr	ates																							
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.					**													С	С	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.											В									EMPICOL® iDS X10

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

Performance Concentrates

Performance Concentrates

							Fo	oam (s	soft wate	er)	рН		Р	erformar	ice char	acteristic	S		Mai	n appli	cation	areas			ditiona acteristi		
Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features	oster	-	am		stable	booster	cy	ation		e tolerant er tolerant	mpatibility	perature compatibility	c dishwash	are	o.		7		e on product as is	-symbol free	
EMPICOL® F	Performance	Concentra	ites (cont)			Foam boo	Flash foar	Stable for	Low foam	star	Viscosity b	Detergen	Wetting Emulsifica	Degreasir	Electrolyt Hard wate	Bleach co	Cold temp	Automatic	Surface co	Toilet care	Laundry	Car care	Ecolabel	Label free	Corrosive	
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

Chelating Agents

							Fo	am (sc	oft water)		рН		Perfor	rmance c	haracteri	istics		М	lain ap	plicatio	n areas			dditiona acteristi		
Product Name	INCI Name	% Naturally derived	% active	Appearance a room temperature	t C-chain length	Features	oster	L	us .	<u>_e</u>	table	oooster		ition	e tolerant	er tolerant mpatibility	verature compatibility	ishwash	c dishwash			, cortificat		on product as is	-symbol free	
ENVIOMET	® EDDS						Foam boo	Flash foar	Stable foa	Acid stab	Alkaline s	Viscosity Detergen	Wetting	Emulsifica Degreasir	Electrolyt	Hard wate	Cold temp	Manual d	Automati	Toilet care	Laundry	Car care	Ecolabel	Label free	Corrosive	
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

For inspiration, ideas or further information, please contact us:

Innospec Performance Chemicals

Americas

Tel: +1 704 633 8028

United Kingdom

Tel: +44 (0) 151 350 6982

Italy

Tel: +39 0376 637 242

Email: homecare@innospecinc.com

www.innospecinc.com



The facts stated and the recommendations made are based on our own research and/or the research of others, and are believed to be accurate. No guarantee of their accuracy is made, however, and unless otherwise expressly provided by law or in written contract, the materials are sold without warranties, expressed or implied, in particular without guarantee as to suitability for particular purpose. Innospec assumes no responsibility for injury or damage to users or third parties. Recipient agrees to assume all risk and liability whether used singly or in combination with other materials.

V6.10 2019

