the whole home

Join our journey to a more sustainable future

innospec

Home Care I&I product guide

the whole home

Home Care from Innospec offers a diverse range of surfactants, additives and patented high-performance formulations for use in everyday cleaning products.

Starting from market trends and needs and what is challenging for customers, we provide the best of our support and technical knowledge to meet their requirements and to be reliable partners within their next formulation.

Our ingredients find their way into a variety of products from laundry liquids, pods, powders and tablets to dish care products, multi-purpose cleaners, toilet care and car care.

Innospec are committed to continual innovation and developing products that contribute to a more sustainable future. 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.

Join our journey to a more sustainable future with Innospec solutions for Home Care, I&I.

Contents

To help guide you through our product range we have suggested which Application our products can be used for.

Application key:

Manual Dishwashing

Auto Dishwashing

Hard Surface Cleaning

Toilet Care

Laundry Detergent

Car Care

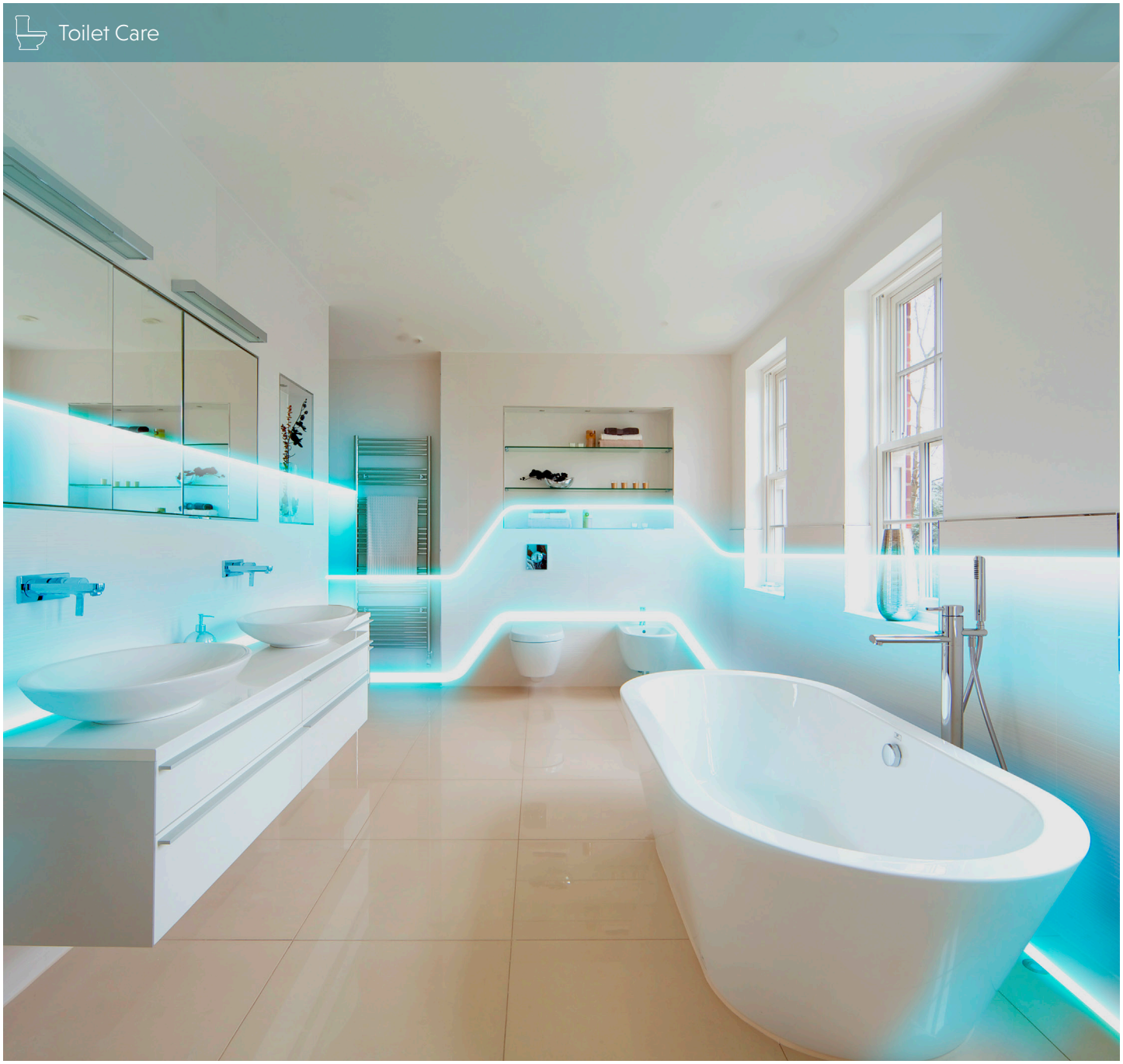
Manual Dishwashing and Auto Dishwashing

Laundry Detergent

Hard Surface Cleaning

Car Care

Toilet Care



primary surfactants

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
AQUANATE™ Methyl Acyl Taurates						
AQUANATE™ MOT 30	Sodium Methyl Oleoyl Taurate	86	30	Viscous liquid	C18:1	Low odor and color, long chain, anionic surfactant. Viscosity builder and stable between pH 3.0-11.0. Moderate foamer.
AQUANATE™ MOT 70	Sodium Methyl Oleoyl Taurate	86	70	Powder	C18:1	Low odor and color, long chain, anionic surfactant. Viscosity builder and stable between pH 3.0-11.0. Moderate foamer.
AQUANATE™ COT 20	Sodium Methyl Cocoyl Taurate	85	20	Liquid	C12-18	Mild anionic surfactant. High flash foaming and excellent detergency. Hard water and electrolyte tolerant. Chemically stable between pH 3.0-11.0.
AQUANATE™ COT 30	Sodium Methyl Cocoyl Taurate	85	30	Paste	C12-18	Mild anionic surfactant. High flash foaming and excellent detergency. Hard water and electrolyte tolerant. Chemically stable between pH 3.0-11.0.
AQUANATE™ COT 75	Sodium Methyl Cocoyl Taurate	85	75	Powder	C12-18	Mild anionic surfactant. High flash foaming and excellent detergency. Hard water and electrolyte tolerant. Chemically stable between pH 3.0-11.0.
AQUANATE™ Acyl (Methyl) Isethionates						
AQUANATE™ LQ	Sodium Lauroyl Methyl Isethionate	80	32	Clear liquid	C12	Sulfate-free anionic surfactant for clear and opaque systems. Preservative: Sodium Benzoate
AQUANATE™ FK	Sodium Lauroyl Methyl Isethionate	80	82	Flake	C12	Sulfate-free anionic surfactant for clear and opaque systems.
AQUANATE™ Acyl Glutamates						
AQUANATE™ GLT	Sodium Lauroyl Glutamate	100	20	Clear to slightly turbid liquid	C12	Naturally derived, mild anionic surfactant. Stable between a pH of 4.0-10.0. Applications: mild hand dishwash liquids and mild detergents.

#: For more detailed information please consult your sales representative.

Foam				pH		Performance characteristics								Additional characteristics								Application
Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	
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primary surfactants

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
EMPICOL® Alkyl Ether Sulfates						
EMPICOL® EAC 70	Ammonium Laureth-3 Sulfate (Contains Phosphate)	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.
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 sodium salt. Less irritant than the correspondent sodium salt. Better viscosity response and better foam stability than Na salt. Formulating range of pH: neutral and slightly acidic.
EMPIMIN® Alkyl Ether Sulfates						
EMPIMIN® LSM 30	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: Methylisothiazolinone (and) Benzylisothiazolinone.
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.
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.
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.
EMPICOL® 0758	Sodium Decyl Sulfate (Contains Phosphate)	Non-vegetable*	40	Liquid	C10	Primary anionic surfactant. High foaming (flash-foam). Good compatibility with high electrolytes levels. Compatible with alkaline systems.

#: For more detailed information please consult your sales representative. *Non-vegetable = naturally derived grade may also be available upon request. O: For active ingredient only.
C: Specific Concentration Limit.

	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
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EMPICOL® Alkyl Sulfates (cont)

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
EMPICOL® 0775/55 (and MB)	Sodium Lauryl Sulfate (and) Sodium Tallow Sulfate	100	55	Solid at 25°C; fluid, paste at 65°C	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® 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.
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.
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.
EMPICOL® LV840	Sodium Caprylyl Sulfate	100	40	Liquid	C8	Primary anionic surfactant. Low foaming. Good compatibility with high electrolyte levels. Compatible with alkalyne systems.
EMPICOL® LVT40	Sodium C8-10 Sulfate	100	40	Liquid	C8-10	Primary anionic surfactant. High foaming (flash foam). Good compatibility with high electrolyte levels. Compatible with alkalyne systems.
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.

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	Foam				pH		Performance characteristics								Additional characteristics								Application
	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	
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primary surfactants

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
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.
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.
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® Fatty Acid Salts						
NANSA® PC 38/F (and MB)	Potassium Cocoate	100	35	Liquid	C12-18	Primary anionic surfactant with good detergent properties. Low foam profile/foam controller in hard water.
EMPICOL® Dried Alkyl Sulfates						
EMPICOL® 0045/B (and MB)	Sodium Lauryl Sulfate	100	92	Powder	C12	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.
EMPICOL® CZ/N (and MB)	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.
EMPICOL® CZV/N (and MB)	Sodium Coco 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.
EMPICOL® LX/B (and MB)	Sodium Lauryl Sulfate	100	92	Powder	C12-16	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.

#: For more detailed information please consult your sales representative. O: For active ingredient only.

	Foam				pH		Performance characteristics								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	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
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EMPICOL® Dried Alkyl Sulfates (cont)

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
EMPICOL® LX/N (and MB)	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.
EMPICOL® LXV/B (and MB)	Sodium Lauryl Sulfate	100	92	Needles	C12-16	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.
EMPICOL® LXV/N (and MB)	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.
EMPICOL® LZ/B (and MB)	Sodium Lauryl Sulfate	100	92	Powder	C12-18	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.
EMPICOL® LZ/N (and MB)	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.
EMPICOL® LZV/B (and MB)	Sodium Lauryl Sulfate	100	92	Needles	C12-18	Primary anionic surfactant. Very good foaming and detergency especially in soft water. Good emulsifying properties.
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.
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.
EMPICOL® LZV/N (and MB)	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.
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.

#: For more detailed information please consult your sales representative. C: Specific Concentration Limit.

Foam				pH		Performance characteristics								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	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
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NANSA® Dried Alkylbenzene Sulfonates

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
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 85/H	Sodium Dodecylbenzene Sulfonate	Non-vegetable	85	Powder	C10-13	Primary anionic surfactant. P-free, less hygroscopic. Excellent foaming and detergency properties. Chemically stable in acidic and alkaline conditions. Ideal for toilet blocks production.
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 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 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. Ideal for toilet blocks production.
NANSA® HS 80/LSR	Sodium Dodecylbenzene Sulfonate	Non-vegetable	80	Powder	C10-13	Primary anionic surfactant. P-free. Excellent foaming and detergency properties. Chemically stable in acidic and alkaline conditions. Hard water tolerant. Limescale reduction properties. Ideal for toilet blocks production.
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 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.

#: For more detailed information please consult your sales representative. O: For active ingredient only.

	Foam				pH		Performance characteristics								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	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
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NANSA® Dried Olefin Sulfonates

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
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.
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.
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.

#: For more detailed information please consult your sales representative.

	Foam				pH		Performance characteristics								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	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application

EMPIGEN® Alkyl and Alkylamidopropyl Betaines

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
EMPIGEN® BB	Lauryl Betaine	76	30	Liquid	C12-14	Amphoteric co-surfactant. Compatible with anionics, non-ionics and cationics. Efficient foam booster and stabilizer. Good tolerance to hard water and soap. Useful thickening properties. Chemically and physically stable over a wide pH range.
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 stabilizer. 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® BS/FE (and MB)	Cocamidopropyl Betaine	66	30	Liquid	C12-18	Amphoteric co-surfactant. Compatible with anionics, non-ionics and cationics. Efficient foam booster and stabilizer. 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/H50	Cocamidopropyl Betaine	66	35	Liquid	C12-18	Amphoteric co-surfactant. Compatible with anionics, non-ionics and cationics. Efficient foam booster and stabilizer. 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	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 stabilizer. 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/HI	Cocamidopropyl Betaine	66	30	Liquid	C12-18	Amphoteric co-surfactant. Compatible with anionics, non-ionics and cationics. Efficient foam booster and stabilizer. 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.

#: For more detailed information please consult your sales representative. **: Limited.

	Foam				pH		Performance characteristics								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	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
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EMPIGEN® Alkyl Amphoacetates and Amphodiacetates

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
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.
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.
EMPIGEN® CDR 60 (and MB)	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® 5151 (and MB)	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® CDR 2M (and MB)	Sodium Cocoamphoacetate (and) 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.

#: For more detailed information please consult your sales representative. C: Specific Concentration Limit. **: Limited.

Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
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Foam | pH | Performance characteristics | Additional characteristics

EMPICOL® Alkyl Ether Carboxylic Acids and Salts

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
EMPICOL® CVE	Capryleth-6 Carboxylic Acid	40	89	Liquid	C8	Anionic surfactant. Medium-low foaming. Highly compatible with electrolytes, oxidizing agents, acid and alkali. Hydrotropic effect.
EMPICOL® CVH	Capryleth-8 Carboxylic Acid	31	89	Liquid	C8	Anionic surfactant. Low foaming. Highly compatible with electrolytes, oxidizing agents, acid and alkali. Hydrotropic effect.
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® 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 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.

#: For more detailed information please consult your sales representative. **: Limited.

Foam				pH		Performance characteristics								Additional characteristics								Application
Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	
																						
																						
																						
																						
																						

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
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.
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® 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.
EMPIGEN® Amine Oxides						
EMPIGEN® OB (and MB)	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® OD (and MB)	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® 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® 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.

#: For more detailed information please consult your sales representative. O: For active ingredient only.

	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
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EMPIGEN® Anti-bacterial and Softening Agents

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
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 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® BKC 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® 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.

#: For more detailed information please consult your sales representative. O: For active ingredient only.

	Foam				pH		Performance characteristics								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	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
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ACTIVEMOL® Glycerine Carbonates

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
ACTIVEMOL® Glycerine carbonate	Hydroxypropylene carbonate	75	100	Liquid	-	Readily biodegradable, VOC free, non-flammable solvent. Ideal for non-aqueous systems.

#: For more detailed information please consult your sales representative.

	Foam				pH		Performance characteristics								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	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
																							 

ELTESOL® Hydrotropes

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
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® 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 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 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® 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 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® 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 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 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 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 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.

#: For more detailed information please consult your sales representative.

Foam				pH		Performance characteristics								Additional characteristics								Application
Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	
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Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
EMPILAN® Alkyl Glucosides						
EMPILAN® APD 50	Decyl Glucoside	100	50	Liquid	C8-10	Mild, naturally-derived, non-ionic surfactant. Provides excellent foaming and wide formulating pH range of 4.0-11.0.
EMPILAN® APL 50	Lauryl Glucoside	100	50	Viscous liquid	C12-14	Mild, naturally-derived, non-ionic surfactant. Can contribute to building viscosity in combination with other anionic and amphoteric surfactants. Provides a wide formulating pH range of 4.0-11.0.
EMPILAN® APC 50	Coco-Glucoside	100	50	Viscous liquid	C8-14	Mild, naturally-derived, non-ionic surfactant. Provides excellent foaming and wide formulating pH range of 4.0-11.0.
EMPILAN® Ethoxylates						
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 5/90	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® 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.
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. Improved cold storage properties.
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. Improved cold storage properties.

#: For more detailed information please consult your sales representative. *Non-vegetable = naturally derived grade may also be available upon request.

Foam				pH		Performance characteristics								Additional characteristics								Application
Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	
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EMPILAN® Ethoxylates (cont)

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
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, toilet care. Useful to solubilize a wide range of perfumes.
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, toilet care. Useful to solubilize a wide range of perfumes. Improved cold storage properties.
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 6.5	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 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® 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 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 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 6/90	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 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.

#: For more detailed information please consult your sales representative.

Foam				pH		Performance characteristics								Additional characteristics								Application
Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
EMPILAN® Ethoxylates (cont)						
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® Fatty Acid Alkanolamides						
EMPILAN® 2502 (and MB)	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® 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® 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.

#: For more detailed information please consult your sales representative. *Non-vegetable = naturally derived grade may also be available upon request. **: Limited.

Foam				pH		Performance characteristics								Additional characteristics								Application
Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	
																						
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EMPILAN® Ethoxylated/Propoxylated Alcohols

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
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 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.
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 in a wide range of applications, such as surface cleaning.

#: For more detailed information please consult your sales representative.

	Foam				pH		Performance characteristics								Additional characteristics								Application
	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
ENVIOMET® Polymer						
ENVIOMET® Boost	Cyamopsis Tetragonoloba (Guar) Gum	100	100	Off-white, to pale yellow powder	-	Naturally derived viscosity-building polymer and foam stabilizer. Does not require neutralization.
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.
EMPIWAX® CL	Cetearyl Alcohol (and) Ceteareth-25	85	100	Flakes	-	Self-emulsifying wax with high electrolyte tolerance, dispersing, thickening and solubilizing properties.
EMPIWAX® SK/BP	Cetearyl Alcohol (and) Sodium Lauryl Sulfate	100	100	Flakes	-	Self-emulsifying wax with high electrolyte tolerance, dispersing, thickening and solubilizing properties.

#: For more detailed information please consult your sales representative.

Foam				pH		Performance characteristics								Additional characteristics								Application
Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	
																						
																						
																						
																						

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
AQUANATE™ Performance Concentrates						
AQUANATE™ XHL-UM	Aqua (and) Sodium Lauroyl Methyl Isethionate (and) Cocamidopropyl Betaine (and) Sodium Methyl Oleoyl Taurate (and) Lauryl Glcoside (and) Coco-Glucoside	81	42 (as solid)	Clear liquid	-	Sulfate-free concentrated blend of anionic, amphoteric and non-ionic surfactants. High volume, creamy foam stable in hard water. Application: mild hand dishwash liquids and mild detergents. Preservative: Sodium Benzoate.
AQUANATE™ XHL-SFSB	Aqua (and) Sodium Lauroyl Methyl Isethionate (and) Cocamidopropyl Betaine (and) Sodium Cocoyl Isethionate (and) Sodium Methyl Oleoyl Taurate	80	45 (as solid)	Clear to slightly hazy liquid	-	Sulfate-free concentrated blend of anionic and amphoteric surfactants. High volume, creamy foam stable in hard water. Application: mild hand dishwash liquids and mild detergents. Preservative: Sodium Benzoate.
AQUANATE™ XHL-BB	Aqua (and) Sodium C14-16 Olefin Sulfonate (and) Cocamidopropyl Betaine (and) Sodium Lauroyl Methyl Isethionate	42	45 (as solid)	Clear to slightly hazy liquid	-	Sulfate-free concentrated blend of anionic and amphoteric surfactants. High volume, creamy foam stable in hard water. Application: mild hand dishwash liquids and mild detergents. Preservative: Sodium Benzoate.
EMPIPEARL® Pearl Concentrates						
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.

#: For more detailed information please consult your sales representative. O: For active ingredient only. **: Limited.

	Foam				pH		Performance characteristics								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	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
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Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
EMPIPEARL® Pearl Concentrates (cont)						
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 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 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.
EMPILAN® Esters						
EMPILAN® EGDS/A	Glycol Distearate	94	100	Flakes	C16-18	Pearlizing agent, opacifier, oil soluble emulsifier and viscosity modifier.
EMPILAN® EGMS	Glycol Cetearate	92	100	Flakes	C16-18	Pearlizing agent, opacifier, oil soluble emulsifier and viscosity modifier.
EMPICOL® Performance Concentrates and Super-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® 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.

#: For more detailed information please consult your sales representative. **: Limited.

	Foam booster	Flash foam	Stable foam	Low foam	Acid stable	Alkaline stable	Viscosity booster	Detergency	Wetting	Emulsification	Degreasing	Electrolyte tolerant	Hard water tolerant	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
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EMPICOL® Performance Concentrates and Super-Concentrates (cont)

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
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.
EMPICOL® XHL 151/MB	Mild Concentrated Detergent Base	89	24	Fluid paste	-	1,4-dioxane 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.
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® 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. Application: hard surface cleaners, floor cleaners, fine fabric detergents.
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.

#: For more detailed information please consult your sales representative. C: Specific Concentration Limit. **: Limited.

	Foam				pH		Performance characteristics								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	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
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																		C		C			

Product Name	INCI Name	% Naturally derived	% active	Appearance at room temperature	C-chain length	Features
ENVIOMET® EDDS						
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® 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® C265	Ethylenediamine Disuccinic Acid	Non-vegetable	66	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.

#: For more detailed information please consult your sales representative.

	Foam				pH		Performance characteristics								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	Cold temperature compatibility	MB/RSPO certified	EU Ecolabel#	US EPA Safer Choice#	Label free on product as is	Not classified	Skin corrosion free	Eye damage free	Ecocert	Application
																							
																							
																							

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