



# EXPLORE

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Explore our world of personal care products, built around you - our impressive range of ingredients provide the answer to your next unique formulation.

Our scientists have the technical expertise and the market understanding to develop on-trend formulations that capture the physical and sensory attributes consumers want. Whether it is a silky after-feel, easy to rinse or luxurious foam; we know what makes a successful formulation and how to impart a unique experience with brand appeal.



From mild surfactants for shampoos, emollients for sunscreens and silicones for facial creams, these ingredients can bring your project to life and meet the changing expectations of your customers.

It all starts with the right ingredients. Just add in our knowledge and expertise to provide the full package.

Transform the ordinary into something special - explore our products today.

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# SULFATE-FREE SURFACTANTS

## ISETHIONATE SURFACTANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Iselux®</b> <i>RSPO Mass Balance version available</i>	Sodium Lauroyl Methyl Isethionate	928663-45-0	80%	80% active, white, to off-white, waxy flakes.	4.8 - 8.5*	Preservative-free <sup>o</sup>	Sulfate-free anionic surfactant for clear and opaque systems.
<b>Iselux® CO</b>	Sodium Lauroyl Methyl Isethionate	928663-45-0	80%	80% active, white, to off-white, waxy flakes.	4.8 - 8.5*	Preservative-free <sup>o</sup>	Sulfate-free anionic surfactant for clear and opaque systems. Derived from coconut.
<b>Iselux® LQ-CLR-SB</b> <i>RSPO Mass Balance version available</i>	Sodium Lauroyl Methyl Isethionate	928663-45-0	80%	32% active, clear, pale yellow liquid.	4.8 - 8.5*	Sodium benzoate	Sulfate-free anionic surfactant for clear and opaque systems.
<b>Iselux® SCMI</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoyl Methyl Isethionate	2244880-58-6	80%	80% active, white, to off-white, flakes or chips.	4.8 - 8.5*	Preservative-free <sup>o</sup>	Sulfate-free anionic surfactant for clear and opaque systems.
<b>Pureact I-78P</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoyl Isethionate	61789-32-0	86%	78% active, fine, white powder.	6.0 - 8.0*	Preservative-free <sup>o</sup>	Sulfate-free mild anionic surfactant for opaque systems. Ideal for syndet and combo bars, and hot process opaque liquid formulations.
<b>Pureact I-78 Flakes</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoyl Isethionate	61789-32-0	86%	78% active, off-white flakes.	6.0 - 8.0*	Preservative-free <sup>o</sup>	Sulfate-free mild anionic surfactant for opaque systems. Ideal for syndet and combo bars, and hot process opaque liquid formulations.
<b>Pureact I-78C</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoyl Isethionate	61789-32-0	86%	78% active, off-white, easy to disperse noodles.	6.0 - 8.0*	Preservative-free <sup>o</sup>	Sulfate-free mild anionic surfactant for opaque systems. Ideal for syndet and combo bars, and hot process opaque liquid formulations.
<b>Pureact I-78-6</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoyl Isethionate	61789-32-0	86%	50% active, off-white paste.	6.0 - 8.0*	Preservative-free <sup>o</sup>	Sulfate-free mild anionic surfactant for opaque systems. Ideal for syndet and combo bars, and hot process opaque liquid formulations.
<b>Pureact I-80P</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoyl Isethionate	61789-32-0	86%	80% active, fine, white powder.	6.0 - 8.0*	Preservative-free <sup>o</sup>	Sulfate-free mild anionic surfactant for opaque systems. Ideal for syndet and combo bars, and hot process opaque liquid formulations.
<b>Pureact I-85F</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoyl Isethionate	61789-32-0	86%	85% active, white, to off-white, flakes or chips.	6.0 - 8.0*	Preservative-free <sup>o</sup>	Sulfate-free mild anionic surfactant for opaque systems. Ideal for syndet and combo bars, and hot process opaque liquid formulations.

\*excluding soap bars

<sup>o</sup>low microbial susceptibility, due to product pH, electrolyte level, water activity or combination thereof

# SULFATE-FREE SURFACTANTS

## ISETHIONATE SURFACTANTS (CONT.)

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact I-85C</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoyl Isethionate	61789-32-0	86%	85% active, easy to disperse noodles.	6.0 - 8.0*	Preservative-free <sup>o</sup>	Sulfate-free mild anionic surfactant for opaque systems. Ideal for syndet and combo bars, and hot process opaque liquid formulations.
<b>Pureact I-85E Flakes</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoyl Isethionate	61789-32-0	86%	85% active, white, to off-white, flakes or chips.	6.0 - 8.0*	Preservative-free <sup>o</sup>	Sulfate-free, low free fatty acid, mild anionic surfactant for opaque systems. Ideal for syndet and combo bars, and hot process opaque liquid formulations.
<b>Pureact I-85EC</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoyl Isethionate	61789-32-0	86%	85% active, white, to off-white, easy to disperse noodles.	6.0 - 8.0*	Preservative-free <sup>o</sup>	Sulfate-free, low free fatty acid, mild anionic surfactant for opaque systems. Ideal for syndet and combo bars, and hot process opaque liquid formulations.
<b>Pureact SLI</b> <i>RSPO Mass Balance version available</i>	Sodium Lauroyl Isethionate	7381-01-3	86%	80% active, white flakes.	6.0 - 8.0*	Preservative-free <sup>o</sup>	Very high foaming sulfate-free mild anionic surfactant.

## ISELUX® PERFORMANCE CONCENTRATES

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Iselux® SFS-SB</b> <i>RSPO Mass Balance version available</i>	Sodium Lauroyl Methyl Isethionate (and) Cocamidopropyl Betaine (and) Sodium Cocoyl Isethionate (and) Sodium Methyl Oleoyl Taurate	928663-45-0, 61789-40-0, 61789-32-0, 137-20-2	80%	Clear, to slightly hazy liquid.	5.5 - 8.5 (when used alone) 4.8 - 8.5 (when used with co-surfactants)	Sodium benzoate	Concentrated surfactant blend for use in cleansing products such as shampoos and body washes. Simply add water to dilute and salt to thicken to develop stable systems delivering dense mild creamy lather.
<b>Iselux® SLC</b> <i>RSPO Mass Balance version available</i>	Sodium Lauroyl Methyl Isethionate (and) Sodium Lauroamphoacetate (and) Cocamide MIPA	928663-45-0, 68608-66-2, 68333-82-4	77%	Clear, to slightly hazy liquid.	4.8 - 6.0	Sodium benzoate	Cold process, concentrated surfactant blend for formulating structured, sulfate-free personal care products, where high levels of oils and/or silicones, or suspended benefitting agents are desired.
<b>Iselux® Ultra Mild</b> <i>RSPO Mass Balance version available</i>	Sodium Lauroyl Methyl Isethionate (and) Cocamidopropyl Betaine (and) Sodium Methyl Oleoyl Taurate (and) Lauryl Glucoside (and) Coco-Glucoside	61789-40-0, 928663-45-0, 137-20-2, 110615-47-9, 68515-73-1	81%	Clear and brilliant liquid.	5.5 - 8.5	Sodium benzoate	Concentrated surfactant blend developed for use in cleanser applications where an ultra-mild formulation is desired. Features an extremely low irritancy profile to protect delicate skin and eyes.

## SULFATE-FREE SURFACTANTS

### ISELUX® PERFORMANCE CONCENTRATES (CONT.)

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact BB</b>	Sodium C14-16 Olefin Sulfonate (and) Cocamidopropyl Betaine (and) Sodium Lauroyl Methyl Isethionate	68439-57-6, 61789-40-0, 928663-45-0	<50%	43-47% active, yellow, flowable liquid that is clear, to slightly hazy.	4.8 - 8.5	Sodium benzoate	Concentrated surfactant blend developed for economical sulfate-free personal care products. It is a high foaming, optimized blend producing a crystal clear finished formula. Only requires the addition of water for dilution and sodium chloride for viscosity adjustments.

### ISETHIONATE SURFACTANT BLENDS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact SNTD-65</b>	Sodium Cocoyl Isethionate (and) Stearic Acid	61789-32-0, 57-11-4	86%	64-68% active, white, to off-white flakes.	4.0 - 10.0	Preservative-free <sup>o</sup>	Optimized syndet base surfactant blend for dense luxurious lather in combo and syndet bars.
<b>Pureact SNTD-CB</b>	Sodium Cocoyl Isethionate (and) Stearic Acid (and) Sodium Lauroyl Methyl Isethionate (and) Coconut Acid (and) Sodium Isethionate	61789-32-0, 57-11-4, 928663-45-0, 67701-05-7, 1562-00-1	86%	55-70% active, hard, solid (pastilles, flakes, needles or granules).	4.0 - 10.0	Preservative-free <sup>o</sup>	A unique, ready-to-use, flaked base which is intended to be used in combo bars. Designed for use in combo bars between 10% and 30%, as is. This patent pending blend of SCL and Iselux® is easy to process and leaves the bar smooth at both cold and hot water temperatures.

### PERFORMANCE SURFACTANT CONCENTRATES (SULFATE & SULFATE-FREE)

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Empicol® XCT 10</b>	Sodium Laureth Sulfate (and) Sodium C14-16 Olefin Sulfonate (and) Lauryl Betaine	68585-34-2, 68439-57-6, 66455-29-6	>40%	55% active, soft paste	3.5 - 11.0	Benzyl alcohol, methylchloroisothiazolinone and Methylisothiazolinone chloroisothiazolinone and Methylisothiazolinone	Concentrated surfactant blend used in cleansing products such as shampoo and body wash. High biodegradability profile. Viscosity can be adjusted by the use of inorganic salts
<b>Empicol® XCT 14</b> <small>RSPO Mass Balance version available</small>	Sodium C14-16 Olefin Sulfonate (and) Sodium Cocoamphoacetate (and) Cocamide MEA	68439-57-6, 68334-21-4, 68140-00-1	>5%	50% active, soft paste.	4.0 - 11.0	Preservative-free <sup>o</sup>	Concentrated sulfate-free surfactant blend with low irritation profile and optimized foam characteristics. For use in cleansing products such as shampoos and body wash.

# SULFATE-FREE SURFACTANTS

## PERFORMANCE SURFACTANT CONCENTRATES (CONT.)

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact 138</b>	Decyl Glucoside (and) Sodium Lauroyl Lactylate	68515-73-1, 110615-47-9, 58846-77-8, 141464-42-8, 13557-75-0	100%	Clear, to slightly hazy, yellow to amber liquid.	4.5 - 9.0	Preservative-free <sup>o</sup>	Natural, mild, optimized blend that requires no heat, easy to use, and provides exceptional foaming. Can be used in conjunction with anionic, non-ionic, and amphoteric surfactants.
<b>Pureact SIB-10</b>	Disodium Laureth Sulfosuccinate (and) Sodium Cocoyl Isethionate (and) Cocamidopropyl Betaine	68815-56-5, 61789-32-0, 61789-40-0	63%	Clear liquid.	6.0 – 8.0	Phenoxyethanol and ethylhexylglycerin	Alkyl and alkyl ether sulfate-free, ultra-mild, sulfate-free, multi-purpose surfactant concentrate that is optimized to produce excellent foaming in finished products.

## TAURATE SURFACTANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact MS-CG</b> <small>RSPO Mass Balance version available</small>	Sodium Methyl Oleoyl Taurate	137-20-2	86%	30% active, viscous material.	3.0 - 11.0	Preservative-free <sup>o</sup>	Low odor and low color long-chain viscosity building surfactant that is stable across a broad pH range and is a moderate foamer. Based on soy.
<b>Pureact TR-L90</b> <small>RSPO Mass Balance version available</small>	Sodium Methyl Lauroyl Taurate	4337-75-1	80%	90% active, off-white, to tan, flakes or chips.	6.0 - 8.0	Preservative-free <sup>o</sup>	Mild anionic surfactant with very low level of residual sodium chloride.
<b>Pureact WS</b>	Sodium Methyl Cocoyl Taurate	61791-42-2	85%	24% active, off-white, pearlescent, soft paste.	3.0 - 11.0	Preservative-free <sup>o</sup>	High flash foaming mild anionic surfactant for transparent formulations, stable at extreme pH; easy to handle at room temperature. Based on coconut.
<b>Pureact WS Conc</b>	Sodium Methyl Cocoyl Taurate	61791-42-2	85%	30% active, off-white, pearlescent, soft paste.	3.0 - 11.0	Preservative-free <sup>o</sup>	High flash foaming mild anionic surfactant for transparent formulations at extreme pH. Based on coconut.
<b>Pureact WSP</b>	Sodium Methyl Cocoyl Taurate	61791-42-2	85%	75% active, white, free-flowing powder.	3.0 - 11.0	Preservative-free <sup>o</sup>	High flash foaming mild anionic surfactant for transparent formulations at extreme pH. Foaming agent, for use in oral care applications. Based on coconut.
<b>Pureact WS-70</b>	Sodium Methyl Cocoyl Taurate	61791-42-2	81%	20% active liquid.	3.0 - 11.0	Preservative-free <sup>o</sup>	Specifically designed for ease of handling. High flash foaming mild anionic surfactant for transparent formulations at extreme pH. Based on coconut.

# SULFATE-FREE SURFACTANTS

## SARCOSINATE SURFACTANT

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact LSR</b>	Sodium Lauroyl Sarcosinate	137-16-6	80%	30% active, clear, almost colorless liquid.	3.0 - 11.0	Sodium benzoate	Sulfate-free anionic surfactant, providing dense lather and aiding foam stability. Can be used in clear formulations and is stable over a wide pH range. Ideal co-surfactant.

## ALKYL AND ALKYL ETHER SULFOSUCCINATE SURFACTANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact MD-318</b>	Disodium Oleamido MIPA-Sulfosuccinate	67815-88-7 (related CAS No: 43154-85-4)	72%	35% active, clear liquid.	5.5 - 8.0	Preservative-free <sup>o</sup>	Sulfate-free anionic surfactant. Achieves high viscosity, high foaming systems at low use levels. Compatible with cationic conditioners.
<b>Empicol® SDD/O</b> <small>RSPO Mass Balance version available</small>	Disodium Laureth Sulfosuccinate	68815-56-5, 39354-45-5	56%	33% active, clear liquid.	5.5 - 8.0	Sodium benzoate	Mild anionic surfactant with excellent foaming characteristics. For use in cleansing products such as shampoo, body wash and baby care.

## ALKYL ETHER CARBOXYLIC ACIDS AND SURFACTANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact T-A</b>	Trideceth-7 Carboxylic Acid	56388-96-6	non-vegetable	90% active, clear, light yellow, slightly viscous liquid.	4.0 - 10.0	Preservative-free <sup>o</sup>	Free-acid surfactant designed to improve mildness and conditioning of products.
<b>Empicol® CBJ</b> <small>RSPO Mass Balance version available</small>	Laureth-11 Carboxylic Acid	27306-90-7	<50%	86% active, clear liquid.	4.0 - 11.0	Preservative-free <sup>o</sup>	Free-acid high active and moderate foaming mild anionic co-surfactant designed to improve mildness. Neutralization can be achieved with a wide range of neutralizing agents. For use in cleansing products such as shampoo, body wash and baby care. Stable over a wide range of pH. Good detergency and emulsification properties.
<b>Empicol® CED5</b> <small>RSPO Mass Balance version available</small>	Laureth-5 Carboxylic Acid	27306-90-7	54%	92% active, clear liquid.	4.0 - 11.0	Preservative-free <sup>o</sup>	Free-acid high active mild anionic co-surfactant designed to improve mildness. Neutralization can be achieved with a wide range of neutralizing agents. For use in cleansing products such as shampoo, body wash and baby care. Stable over a wide range of pH. Good detergency and emulsification properties.



# SULFATE-FREE SURFACTANTS

## COCAMIDE SURFACTANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Empilan® 2502</b> <i>RSPO Mass Balance version available</i>	Cocamide DEA	8051-30-7	77%	85% active, clear liquid.	5.0 - 11.0	Preservative-free <sup>0</sup>	Non-ionic co-surfactant which can boost formulation viscosity and improve foam stability/volume, in the presence of hard water and soap. Useful to solubilize a wide range of perfumes and active ingredients.
<b>Empilan® CIS</b>	Cocamide MIPA	68333-82-4	81%	95% active, off-white flakes.	5.0 - 11.0	Preservative-free <sup>0</sup>	Non-ionic co-surfactant which boost formulation viscosity and improve foam stability/volume in the presence of hard water and soap.
<b>Empilan® CME/T</b>	Cocamide MEA	68140-00-1	87%	85% active, off-white flakes.	5.0 - 11.0	Preservative-free <sup>0</sup>	Non-ionic co-surfactant which can boost formulation viscosity and improve foam stability/volume in the presence of hard water and soap.
<b>Empilan® MAA/SI</b>	PEG-5 Cocamide	61791-08-0	<50%	85% active, amber, viscous liquid.	5.0 - 11.0	Preservative-free <sup>0</sup>	Non-ionic co-surfactant, emulsifier and solubilizer. Boost stability and volume of foam also in presence of hard water and soap.

## GLUCOSIDE SURFACTANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact Gluco C</b> <i>RSPO Mass Balance version available</i>	Coco-Glucoside	110615-47-9, 68515-73-1	100%	50% active, light yellow, turbid liquid.	4.0 - 11.0	Preservative-free <sup>0</sup>	Mild, naturally derived surfactant that is easy to process.
<b>Pureact Gluco D</b> <i>RSPO Mass Balance version available</i>	Decyl Glucoside	68515-73-1, 110615-47-9, 58846-77-8, 141464-42-8	100%	50% active, light yellow, turbid liquid.	4.0 - 11.0	Preservative-free <sup>0</sup>	Mild, naturally derived surfactant that provides excellent foaming.
<b>Pureact Gluco L</b> <i>RSPO Mass Balance version available</i>	Lauryl Glucoside	110615-47-9	100%	50% active, light yellow, turbid liquid/paste.	4.0 - 11.0	Preservative-free <sup>0</sup>	Mild, naturally derived surfactant that can markedly contribute to building viscosity with Iselux®/cocamidopropyl betaine or SLES/cocamidopropyl betaine systems.

# SULFATE-FREE SURFACTANTS

## GLYCINATE SURFACTANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact SCG</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoyl Glycinate	90387-74-9	86%	30% solids, almost clear liquid.	4.0 - 10.0 (for opaque systems) 6.0 - 10.0 (for clear systems)	Preservative-free <sup>o</sup>	Mild, sulfate-free primary or secondary surfactant.
<b>Pureact SLG</b> <i>RSPO Mass Balance version available</i>	Sodium Lauroyl Glycinate	90387-74-9	86%	30% solids, almost clear liquid.	4.0 - 10.0 (for opaque systems) 6.0 - 10.0 (for clear systems)	Preservative-free <sup>o</sup>	Mild, sulfate-free primary or secondary surfactant.

## GLUTAMATE SURFACTANT

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact GLT</b> <i>RSPO Mass Balance version available</i>	Sodium Lauroyl Glutamate	29923-31-7	100%	20% active, clear, to slightly turbid, yellowish liquid.	4.0 - 11.0	Preservative-free <sup>o</sup>	Naturally derived, mild anionic surfactant for use in rinse-off applications such as facial cleansers, shampoos and hand washes.

## ALKYL AMPHOACETATES AND AMPHODIACETATE SURFACTANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Pureact LAA</b> <i>RSPO Mass Balance version available</i>	Sodium Lauroamphoacetate	68608-66-2	66%	30% active, yellow, to amber liquid.	3.0 - 11.0	Preservative-free <sup>o</sup>	Mild amphoteric co-surfactant for use in cleansing products such as shampoos, body wash and baby care. Excellent compatibility with anionic, non-ionic and cationic surfactants. Stable over a wide pH range. Helps mitigate irritation from primary surfactant.
<b>Empigen® CDL 30/J/35</b> <i>RSPO Mass Balance version available</i>	Sodium Lauroamphoacetate	68608-66-2, 68647-44-9	66%	35% active, clear liquid.	3.0 - 11.0	Preservative-free <sup>o</sup>	Mild amphoteric co-surfactant for use in cleansing products such as shampoos, body wash and baby care. Excellent compatibility with anionic, non-ionic and cationic surfactants. Stable over a wide pH range. Helps mitigate irritation from primary surfactants. Improves foam quality even with soap and hard water.

## ALKYL AMPHOACETATES AND AMPHODIACETATE SURFACTANTS (CONT.)

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Empigen® CDL 60/P</b> <i>RSPO Mass Balance version available</i>	Sodium Lauroam- phoacetate	68608-66-2, 68647-44-9	66%	28% active, clear liquid.	3.0 - 11.0	Preservative-free <sup>0</sup>	Mild amphoteric co-surfactant for use in cleansing products such as shampoos, body wash and baby care. Excellent compatibility with anionic, non-ionic and cationic surfactants. Stable over a wide pH range. Helps mitigate irritation from primary surfactants. Improves foam quality even with soap and hard water.
<b>Empigen® 5151</b> <i>RSPO Mass Balance version available</i>	Disodium Cocoam- phodiacetate	68334-21-4, 68650-39-5	66%	50% solid, clear liquid.	3.0 - 11.0	Preservative-free <sup>0</sup>	Mild amphoteric co-surfactant for use in cleansing products such as shampoos, body wash and baby care. Excellent compatibility with anionic, non-ionic and cationic surfactants. Stable over a wide pH range. Helps mitigate irritation from primary surfactants. Improves foam quality even with soap and hard water.
<b>Empigen® CDR 2M</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoam- phoacetate (and) Disodium Cocoam- phodiacetate	68334-21-4, 68650-39-5	66%	50% solid, clear liquid.	3.0 - 11.0	Preservative-free <sup>0</sup>	Mild amphoteric co-surfactant for use in cleansing products such as shampoos, body wash and baby care. Excellent compatibility with anionic, non-ionic and cationic surfactants. Stable over a wide pH range. Helps mitigate irritation from primary surfactants. Improves foam quality even with soap and hard water.
<b>Empigen® CDR 60</b> <i>RSPO Mass Balance version available</i>	Sodium Cocoam- phoacetate	68334-21-4, 68650-39-5	68%	34% active, clear liquid.	3.0 - 11.0	Preservative-free <sup>0</sup>	Mild amphoteric co-surfactant for use in cleansing products such as shampoos, body wash and baby care. Excellent compatibility with anionic, non-ionic and cationic surfactants. Stable over a wide pH range. Helps mitigate irritation from primary surfactants. Improves foam quality even with soap and hard water.

# SULFATE-FREE SURFACTANTS

## OLEFIN SULFONATE SURFACTANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Nansa® LSS 38/AV</b>	Sodium C14-16 Olefin Sulfonate	68439-57-6	non-vegetable	38% active, clear liquid.	3.0 - 11.0	Sodium benzoate	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather, for use in cleansing products such as body washes and shampoos. Stable in acidic conditions.
<b>Nansa® LSS 38/U</b>	Sodium C14-16 Olefin Sulfonate	68439-57-6	non-vegetable	37-39% active, amber liquid.	3.0 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather, for use in cleansing products such as body washes and shampoos. Stable in acidic conditions.
<b>Nansa® LSS 480/H</b>	Sodium C14-16 Olefin Sulfonate	68439-57-6	non-vegetable	80% active, fine, off-white powder.	3.0 - 11.0	Preservative-free <sup>o</sup>	High active EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather, for use in cleansing products such as body washes and shampoos. Stable in acidic conditions.
<b>Nansa® LSS 495/H</b>	Sodium C14-16 Olefin Sulfonate	68439-57-6	non-vegetable	95% active, fine, off-white powder.	3.0 - 11.0	Preservative-free <sup>o</sup>	High active EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather, for use in cleansing products such as body washes and shampoos. Stable in acidic conditions.

## ALKYL AND ALKYLAMIDOPROPYL BETAINE SURFACTANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Empigen® BB</b> <i>RSPO Mass Balance version available</i>	Lauryl Betaine	66455-29-6, 68424-94-2	76%	30% active, clear liquid.	3.0 - 11.0	Preservative-free <sup>o</sup>	Mild amphoteric co-surfactant for use in cleansing products such as shampoos, body washes and baby care. Excellent compatibility with anionic, non-ionic and cationic surfactants. Stable over a wide pH range.
<b>Empigen® CBET</b> <i>RSPO Mass Balance version available</i>	Coco-Betaine	66455-29-6, 68424-94-2	76%	30% active, clear liquid.	3.0 - 11.0	Preservative-free <sup>o</sup>	Mild amphoteric co-surfactant for use in cleansing products such as shampoos, body wash and baby care. Excellent compatibility with anionic, non-ionic and cationic surfactants. Stable over a wide pH range.
<b>Empigen® BS/FA</b> <i>RSPO Mass Balance version available</i>	Cocamidopropyl Betaine	61789-40-0	68%	30% active, clear liquid.	3.0 - 11.0	Sodium benzoate	Mild amphoteric co-surfactant for use in cleansing products such as shampoos, body wash and baby care. Excellent compatibility with anionic, non-ionic and cationic surfactants. Stable over a wide pH range.
<b>Empigen® BS/O</b>	Cocamidopropyl Betaine	61789-40-0, 97862-59-4	68%	30% active, clear liquid.	3.0 - 11.0	Preservative-free	Mild amphoteric surfactant for use in cleansing systems such as shampoos, body washes and baby care. Compatible with anionic, non-ionic and cationic surfactants. Stable over a wide pH range.
<b>Empigen® BS/O-AV</b>	Cocamidopropyl Betaine	61789-40-0, 97862-59-4	68%	30% active, clear liquid.	3.0 - 11.0	Sodium Benzoate	Mild amphoteric surfactant for use in cleansing systems such as shampoos, body washes and baby care. Compatible with anionic, non-ionic and cationic surfactants. Stable over a wide pH range.
<b>Empigen® BS/O-N</b>	Cocamidopropyl Betaine	61789-40-0, 97862-59-4	68%	30% active, clear liquid.	3.0 - 11.0	Preservative-free	Mild amphoteric surfactant for use in cleansing systems such as shampoos, body washes and baby care. Compatible with anionic, non-ionic and cationic surfactants. Stable over a wide pH range.

## SULFATE-FREE SURFACTANTS

### ALKYL AND ALKYLAMIDOPROPYL BETAINE SURFACTANTS (CONT.)

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Empigen® BS/O-X</b>	Cocamidopropyl Betaine	61789-40-0, 97862-59-4	68%	30% active, clear liquid.	3.0 - 11.0	Methyl-chloroisothiazolinone and Methyl-isothiazolinone	Mild amphoteric surfactant for use in cleansing systems such as shampoos, body washes and baby care. Compatible with anionic, non-ionic and cationic surfactants. Stable over a wide pH range.
<b>Empigen® Total Active TC/U</b> <small>RSPO Mass Balance version available</small>	Cocamido-propyl Betaine	61789-40-0	66%	35% active, clear liquid.	3.0 - 11.0	Sodium benzoate	Low sodium chloride content mild amphoteric co-surfactant for use in cleansing products such as shampoos, body wash and baby care. Excellent compatibility with anionic, non-ionic and cationic surfactants. Ideal for use in hair coloring shampoos with direct dyes due to its low level of salt (salt has been shown to impede the deposition of certain direct dyes onto hair from shampoos). Stable over a wide pH range.
<b>Empigen® BS/H50</b> <small>RSPO Mass Balance version available</small>	Cocamido-propyl Betaine	61789-40-0	66%	35% active, clear liquid.	3.0 - 11.0	Preservative-free <sup>o</sup>	High active mild amphoteric co-surfactant for use in cleansing products such as shampoos, body wash and baby care. Excellent compatibility with anionic, non-ionic and cationic surfactants. Stable over a wide pH range.

### COCOATE FOR LIQUID SOAP

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Nansa® PC 38/F</b> <small>RSPO Mass Balance version available</small>	Potassium Cocoate	61789-30-8	100%	35% active, clear liquid.		Preservative-free <sup>o</sup>	Traditional cleansing agent often used in liquid soaps.

\*Manufactured to meet the requirements of the monographs in the US and European Pharmacopoeia - see TDS for details

<sup>o</sup>low microbial susceptibility, due to product pH, electrolyte level, water activity or combination thereof

# SULFATE AND SULFATE-FREE SURFACTANTS

## AMINE OXIDES

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Empigen® OB</b> <i>RSPO Mass Balance version available</i>	Lauramine Oxide	308062-28-4, 85408-49-7, 70592-80-2	87%	30% active liquid.		Preservative-free <sup>o</sup>	Excellent low pH and stability, compatible with cationic surfactants and polymers.
<b>Empigen® OS/A</b> <i>RSPO Mass Balance version available</i>	Cocamido-propylamine Oxide	68155-09-9	73%	30% active liquid.		Preservative-free <sup>o</sup>	Excellent low pH and stability, compatible with cationic surfactants and polymers.

## ALKYL AND ALKYL ETHER SULFATE SURFACTANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Empicol® AL 30/AV</b> <i>RSPO Mass Balance version available</i>	Ammonium Lauryl Sulfate	68081-96-9	100%	28% active, clear liquid.	<7.0	Sodium benzoate	EO-free primary anionic surfactant providing rich lather. For use in cleansing products such as shampoos and body washes.
<b>Empicol® AL 70</b> <i>RSPO Mass Balance version available</i>	Ammonium Lauryl Sulfate	68081-96-9	100%	68% active, soft paste.	<7.0	Preservative-free <sup>o</sup>	High active EO-free primary anionic surfactant providing rich lather. For use in cleansing products such as shampoos and body washes.
<b>Empicol® EAC 70</b> <i>RSPO Mass Balance version available</i>	Ammonium Laureth Sulfate	67762-19-0	68%	70% active, soft paste.	-	Preservative-free <sup>o</sup>	High active primary anionic surfactant providing rich lather. For use in cleansing products such as shampoos and body washes.
<b>Empicol® EGC 70</b> <i>RSPO Mass Balance version available</i>	Magnesium Laureth Sulfate	67762-21-4	68%	70% active, soft paste.	5.0 - 11.0	Preservative-free <sup>o</sup>	High active primary anionic surfactant providing rich lather. For use in cleansing products such as shampoos and body washes.
<b>Empicol® 0045/B</b> <i>RSPO Mass Balance version available</i>	Sodium Lauryl Sulfate	151-21-3	100%	92% active, fine, off-white powder.	3.5 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.
<b>Empicol® CZ/N*</b> <i>RSPO Mass Balance version available</i>	Sodium Coco Sulfate	68585-47-7	100%	92% active, off-white powder.	3.5 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.
<b>Empicol® CZV/N*</b>	Sodium Coco Sulfate	68585-47-7	100%	92% active, off white needle	3.5 - 11.0	Preservative-free	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.

# SULFATE AND SULFATE-FREE SURFACTANTS

## ALKYL AND ALKYL ETHER SULFATE SURFACTANTS (CONT.)

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Formulating pH Range	Preservative system	Features
<b>Empicol® LX/B</b> <i>RSPO Mass Balance version available</i>	Sodium Lauryl Sulfate	68585-47-7	100%	92% active, fine, off-white powder.	3.5 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.
<b>Empicol® LX/N*</b> <i>RSPO Mass Balance version available</i>	Sodium Lauryl Sulfate	68585-47-7	100%	92% active, fine, off-white powder.	3.5 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.
<b>Empicol® LXV/B</b> <i>RSPO Mass Balance version available</i>	Sodium Lauryl Sulfate	68585-47-7	100%	92% active, off-white needles.	3.5 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.
<b>Empicol® LXV/N*</b> <i>RSPO Mass Balance version available</i>	Sodium Lauryl Sulfate	68585-47-7	100%	92% active, off-white needles.	3.5 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.
<b>Empicol® LZ/B</b> <i>RSPO Mass Balance version available</i>	Sodium Lauryl Sulfate	68585-47-7	100%	92% active, off-white powder.	3.5 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.
<b>Empicol® LZ/N*</b> <i>RSPO Mass Balance version available</i>	Sodium Lauryl Sulfate	68585-47-7	100%	92% active, off-white powder.	3.5 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.
<b>Empicol® LZV/B</b> <i>RSPO Mass Balance version available</i>	Sodium Lauryl Sulfate	68585-47-7	100%	92% active, off-white needles.	3.5 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.
<b>Empicol® LZV/N*</b> <i>RSPO Mass Balance version available</i>	Sodium Lauryl Sulfate	68585-47-7	100%	92% active, off-white needles.	3.5 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.
<b>Empicol® LX/B</b> <i>RSPO Mass Balance version available</i>	Sodium Lauryl Sulfate	68585-47-7	100%	92% active, fine, off-white powder.	3.5 - 11.0	Preservative-free <sup>o</sup>	EO-free primary anionic surfactant with hard water and electrolyte tolerance. Provides rich lather. For use in cleansing products such as body washes and shampoos.

\*Manufactured to meet the requirements of the monographs in the US and European Pharmacopoeia - see TDS for details

<sup>o</sup>low microbial susceptibility, due to product pH, electrolyte level, water activity or combination thereof



## COSMETICS FLUIDS

Product Name	INCI Name	Diluent	Viscosity (cP)	NVC % (non-volatile content)	Features
<b>Cosmetic Fluid 0515-OH</b>	Dimethicone (and) Dimethiconol	DM	5,000	100.0	Popular ingredient for dry skin in daily care and sun care protection. High viscosity skin emollient widely used in skin slip application. Smooth feeling and non-tacky.
<b>Cosmetic Fluid 1406-DM</b>	Dimethicone	DM	2,700	100.0	Excellent emollient with skin protecting properties. Offers water resistance to skin lotions and creams. Cyclic-free compound.
<b>Cosmetic Fluid 1406-OH</b>	Dimethicone (and) Dimethiconol	DM	2,000	100.0	Silicone skin emollient with water resistance properties. Smooth application. Can be incorporated in sunscreens for added water resistance and dry skin reduction.
<b>Cosmetic Fluid 1486-DM</b>	Cyclopentasiloxane (and) Dimethicone	D5	4,500	15.0	Widely used silicone elastomer compound for hair care serums and treatments products.
<b>Cosmetic Fluid 1486-OH</b>	Cyclomethicone (and) Dimethicono	D4/D5	4,500	14.0	Widely used elastomer serum in hair care applications. Highly volatile.
<b>Cosmetic Fluid 1585-OH</b>	Cyclopentasiloxane (and) Dimethiconol	D5	5,000	14.0	Widely used silicone elastomer compound. Excellent in shine products, treatments serums and hair conditioners
<b>Cosmetic Fluid 2006-OH</b>	Dimethicone (and) Dimethiconol	DM	600	100.0	Unique blend of ultra high viscosity elastomer in a dimethicone base. Improves substantivity and aesthetics of emulsions, gels, emollients and sticks. Used in a wide range of skin care applications.
<b>Cosmetic Fluid 3569-DM</b>	Cyclopentasiloxane (and) Dimethicone	D5	250	40.0	Lubricious, non-greasy silicone serum. Excellent skin lubricity without tackiness.
<b>Cosmetic Fluid 8108-OH</b>	Dimethicone (and) Dimethiconol (and) Trisiloxane	OMTS	200	12.5	Cyclic silicone-free volatile delivery system for various skin care applications. Maintains excellent playtime and dries to a matte finish.
<b>Cosmetic Fluid 8503-HALS</b>	Cyclopentasiloxane (and) Dimethiconol (and) Propoxytetramethyl Piperidinyl Dimethicone	D5	1,600	10.0	Moisture activated hair repair serum. Creates softness, shine and overall healthy hair with patented free radical scavenging technology.

# SILICONES

## SILICONE VISCOSITY MODIFIERS

Product Name	INCI Name	Diluent	Viscosity (cP)	NVC % (non-volatile content)	Refractive Index	Features
<b>Gelaid® 5561</b>	Cyclopentasiloxane (and) Dimethicone (and) Phenyl Trimethicone	D5	4,500	18.0	1.3969	D4 free off-set to Gelaid® 5565 specifically designed gelling ingredients for formulating clear reflective index products.
<b>Gelaid® 5565</b>	Cyclomethicone (and) Dimethicone (and) Phenyl Trimethicone	D4/D5	5,000	18.0	1.3967	D4 free off-set to Gelaid® 5565 specifically designed gelling ingredients for formulating clear reflective index products.
<b>Gelaid® 8205</b>	Cyclopentasiloxane (and) Dimethicone	D5	11,500	18.0	1.3971	Used as base for hair shine products or micro-emulsion gel laminators. High solids shine serum. Provides quick volatility.
<b>Gelaid® CPDP</b>	Cyclopentasiloxane (and) Dimethicone (and) Phenyl Trimethicone	D5	5,000	18.0	1.4012	Specifically designed gelling ingredient for formulating clear reflective index products. Provides high gloss and heat protection for non-chemical hair straighteners.
<b>Gelaid® CPDP-CF</b>	Dimethicone (and) Phenyl Trimethicone	DM	4,800	20.0	1.4000	Cyclic-free formulated product specifically designed for making clear refractive index gel products. It provides high gloss and protection to the hair from thermal treatments such as blow drying.
<b>Gelaid® CPE</b>	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Hydroxyethyl Acrylate / Sodium Acryloyl Dimethyl Taurate Copolymer	D5	25,000	9.5	N/A	Pre-emulsified gelling agent that creates luxurious creams and lotions. Specifically developed for cold mix process. Multi-phasic properties permit functional oil and water based active ingredients to be incorporated.
<b>Gelaid® CPE-CF</b>	Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Hydroxyethyl Acrylate / Sodium Acryloyl Dimethyl Taurate Copolymer	DM	62,000	92.0	N/A	Cyclic-free version of Gelaid® CPE. Same properties with elimination of cyclopentasiloxane for formulas requiring cyclic-free raw materials.

## MACRO-EMULSIONS &amp; SURFACTANTS

Product Name	INCI Name	Diluent	NVC % (non-volatile content)	Emulsion Type	Features
<b>Emulsil® CC-30</b>	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride	Water	35.0	Cationic macro	Strong cationic emulsion and organic quaternary combination for rinse-off or leave-in conditioners. Non-animal derived cationic quat and non-tallow surfactants.
<b>Emulsil® CC-49</b>	Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12	Water	35.0	Cationic macro	Highly engineered cationic emulsion with a small controlled particle size to improve deposition of actives on the hair fiber. Leads to improved wet and dry combing as well as hair softness. Preservative free.
<b>Emulsil® CT-50</b> <i>Not reach registered</i>	Dimethiconol (and) Dodecylbenzenesulfonate	Water	50.0	Anionic	50% active emulsion having a nano size droplets of a high molecular weight dimethiconol polymer that can be used in 2-in-1 shampoos and body washes..
<b>Emulsil TSA-60</b>	Aminopropyl Dimethicone (and) Laureth-4 (and) Laureth-23	Water	60.0	Non-ionic	Premium salon-style deep conditioning. String cation silicone polymer that provides the "it" factor to conditioner formulations. Great hair conditioning and softness on treated hair.
<b>Emulsil® S-290</b>	Cetyl PEG/PPG-10/1 Dimethicone	N/A	100.0	Non-ionic	Alkyl Dimethicone copolyol silicone emulsifier which is ideally suited to produce elegant W/O creams and lotions but without the greasiness and heaviness of typical water-in-oil systems. It is a non-ionic W/O emulsifier based on silicone. The combination of alkyl and PEG groups on the silicone backbone lead to a HLB value of 3 which provides emulsification and stabilization of W/O emulsions. The optimum range for total oil content is 22-35%.
<b>Emulsil® S-393</b>	PEG-12 Dimethicone	N/A	100.0	Non-ionic	Water dispersible silicone copolyol surfactant used as plasticizer and solubilizer in cosmetic systems.
<b>Emulsil® S-397</b>	PEG-10 Dimethicone	N/A	100.0	Non-ionic	Water dispersible silicone copolyol surfactant used as plasticizer and solubilizer in cosmetic systems.
<b>Emulsil® S-399</b>	Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone	N/A	100.0	Non-ionic	100% active, odorless water-in-silicone and water-in-oil emulsifier. Oil and silicone dispersible branched silicone glycol copolymer.
<b>Emulsil® WO-5115</b>	Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone	D5	10.0	Non-ionic	Widely used in water-in-oil emulsifier/surfactant system. Base diluent is cyclopentasiloxane. Excellent delivery system for sunscreens, anti-perspirant actives and pigments.
<b>Emulsil® WO-5116</b>	Dimethicone (and) PEG/PPG-18/18 Dimethiconol	DM	10.0	Non-ionic	Cyclic-free silicone, widely used in water-in-oil emulsifier/surfactant system. Base diluent is cyclopentasiloxane. Excellent delivery system for sunscreens, anti-perspirant actives and pigments.

# SILICONES

## MICRO-EMULSIONS

Product Name	INCI Name	% Silicone	Features
<b>Microsil 8107</b>	Amodimethicone (and) C11-15 Pareth-7 (and) Laureth-9 (and) Glycerin (and) Trideceth-12	20%	Excellent conditioning additive for a wide range of water based hair care applications including rinse-off and leave-in conditioners, shampoos and hair styling products. Enhances wet and dry combing, adds hair shine and hair volume."
<b>Microsil® Finish</b> <i>Preservative free version available</i>	Propoxytetramethyl Piperidinyl Dimethicone (and) Cetrimonium Chloride (and) Cetrimonium Bromide (and) Trideceth-6 (and) C11-15 Pareth-7	35%	Clear cationic emulsion with a balanced combination of amino-functional silicones and cationic quats that can be used in a variety of water based conditioning formulas. Delivers hair volume and anti-frizz protection as well as hair softness and shine.
<b>Microsil® Volume</b>	Propoxytetramethyl Piperidinyl Dimethicone (and) Cetrimonium Chloride (and) Trideceth-6 (and) C11-15 Pareth-7	35%	Balanced combination of a patented cationic amine silicone with organic quats. Active silicone is a free radical scavenger that protects the hair while adding hair volume. Preservative free version is available.
<b>Microsil® HAF-MV</b>	Propoxytetramethyl Piperidinyl Dimethicone (and) Trideceth-6 (and) C11-15 Pareth-7	35%	Hindered amine silicone microemulsion with unique cationic silicone with great substantivity to hair. Clear compatibility in anionic detergent systems. Perfect for clear 2-n-1 shampoos and body washes. Base fluid viscosity is 90,000 cSt.
<b>Microsil® HAF-HV</b>	Propoxytetramethyl Piperidinyl Dimethicone (and) Trideceth-6 (and) C11-15 Pareth-7	35%	Hindered amine silicone microemulsion with unique cationic silicone with great substantivity to hair. Clear compatibility in anionic detergent systems. Perfect for clear 2-n-1 shampoos and body washes. Base fluid viscosity is 90,000 cSt. Preservative free version are also available.

## SPECIALITY PRODUCTS

Product Name	INCI Name	Diluent	Refractive Index	Appearance	Features
<b>Specsil K-12</b>	Dimethicone (and) Dimethicone PEG-10/15 Crosspolymer	DM	1.403	Colorless, translucent paste.	Water-in-silicone emulsifier/surfactant incorporates crosspolymer for luxurious skin feel. Can be used in conjunction with Emulsil® S-397 to obtain stability. Elegant water-break emulsions can be achieved depending on the level of Emulsil® S-397.
<b>Specsil K-13</b>	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	D5	1.398	Colorless, transparent gel.	High solids clear elastomer gel. Good thickening capability and suspension with large particles. Provides elegant skin feel leaving matte finish on skin. Formulates excellent silky soft crème base.
<b>Specsil K-17</b>	Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	DM	1.398	Colorless, transparent gel.	Silicone gel with volatile dimethicone carrier. Leaves a long lasting, silky, elegant skin feel. Useful thickening agent for various oils.
<b>Specsil K-19</b>	Cyclopentasiloxane (and) Dimethicone Crosspolymer	D5	1.398	Crystal clear, to slightly translucent gel.	Elastomer gel. Good thickening capability for suspension of larger particles. Provides an elegant skin feel leaving a matte finish on the skin.
<b>Specsil K-45</b>	Cyclopentasiloxane (and) Acrylates/Dimethicone Copolymer	D5	1.411	Translucent liquid.	Provides long lasting, soft, flexible film with excellent water and oil repellency. Uses include long lasting color cosmetics, water resistant sunscreens.

## SPECIALITY PRODUCTS (CONT.)

Product Name	INCI Name	Diluent	Refractive Index	Appearance	Features
<b>Specsil K-50</b>	Isododecane (and) Acrylates/Dimethicone Copolymer	ID	1.400	Colorless, transparent gel.	Same acrylate-silicone copolymer used in K-45 for long lasting wear but utilises isododecane as diluent. Cyclic silicone-free.
<b>Specsil K-51</b>	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	D5	1.397	Colorless, transparent gel.	Popular clear elastomer gel compound with a luxuriously dry after-feel. Leaves a matte finish on skin with a talc like after-feel. Used in skin care preparations. Volatile cyclic diluents for fast dry time.
<b>Specsil K-56</b>	Diphenylsiloxy Phenyl Trimethicone	N/A	1.490	Colorless, thin, transparent liquid.	Used extensively in hair care and lipcare products for superior shine due to high refractive index. Light, greaseless after feel on hair and skin.
<b>Specsil K-57</b>	Phenyl Trimethicone	N/A	1.490	Colorless, thin, transparent liquid.	Used extensively in hair care products for superior shine due to high refractive index. Light, greaseless after feel on hair and skin. Provides gloss to lipcare products.
<b>Specsil K-71</b>	Trimethylsiloxysilicate	N/A	1.410	White powder.	Easy to disperse, 100% silicone resin. Provides durable transfer and wash off resistance.
<b>Specsil K-78</b>	Cyclopentasiloxane (and) Trimethylsiloxysilicate	D5	1.400	Crystal clear to slightly hazy viscous liquid.	Low (<0.1) cyclotetrasiloxane version of K-73.
<b>Specsil K-79</b>	Dimethicone (and) Trimethylsiloxysilicate	DM	1.410	Crystal clear to slightly hazy viscous liquid	Silicone resin in a dimethicone carrier formulated to provide excellent spreadability and application and dry down aesthetics.
<b>Specsil SPD</b>	Dimethicone/Vinyl Dimethicone Crosspolymer	Water	N/A	60% aqueous dispersion.	Dispersion of two micron silicone powders. Excellent line filler, absorbs sebum. Leaves silky, talc-like feel when incorporated in skin care products.

## VOLATILE FLUIDS

Product Name	INCI Name	Flash Point °C	Features
<b>Volasil® DM-0.65</b>	Disiloxane	-1.0	The most volatile silicone fluid. Low odor and toxicity. Perfect for applications where dry time is important. VOC free, great solvency with other ingredients.
<b>Volasil® DM-1</b>	Trisiloxane	30	Linear low molecular weight silicone. Finds uses where volatility is key without cyclic silicones.
<b>Volasil® DM-1.5</b>	Dimethicone	57	Linear low molecular weight silicone. Finds uses where volatility is key without cyclic silicones
<b>Volasil® DM-2</b>	Dimethicone	87	Linear low molecular weight silicone. Finds uses where volatility is key without cyclic silicones.

## SILICONES

### VOLATILE FLUIDS (CONT.)

Product Name	INCI Name	Flash Point °C	Features
<b>Volasil® 990</b>	Cyclopentasiloxane	77	Most widely used cyclic in all personal care applications including deodorants, anti-perspirants, skin care, sun care, hair sprays, colour cosmetics and hair conditioners. Less than 0.10% of each D4, D5 and D6
<b>Volasil® 995</b>	Cyclopentasiloxane	77	Cyclic silicone. Most widely used in all personal care applications including deodorants, anti-perspirants, skin care, sun care, hair sprays, color cosmetics and hair conditioners.
<b>Volasil® 996</b>	Cyclohexasiloxane (and) Cyclopentasiloxane	93	Volatile, low viscosity silicone fluid. Improves personal care products through enhanced spreading and lubrication properties. Also used in cleansing products.
<b>Volasil® 7525</b>	Cyclopentasiloxane (and) Cyclohexasiloxane	82	Specialty blend of Volasil® 995 and Volasil® 996 for longer dwell times to a dry finish.
<b>Volasil® 8100</b>	Dimethicone (and) Trisiloxane	64	High volatility cyclomethicone mixture. Key factor is reduced freeze point for ease of handling.

### DIMETHYL FLUIDS

Full range of Dimethicone products available from 5cst to 150,000 cst

Product Name	INCI Name	Refractive Index	Features
<b>Dimethisil® DM-5</b>	Dimethicone	1.396	Makes excellent emollients for skin care applications. Leaves a light and greaseless after-feel.
<b>Dimethisil® DM-6</b>	Dimethicone	1.397	Makes excellent emollients for skin care applications. Leaves a light and greaseless after-feel
<b>Dimethisil® DM-10</b>	Dimethicone	1.399	Low viscosity dimethicone for formulating products that require great spreading and lubricity without the greasiness
<b>Dimethisil® DM-20</b>	Dimethicone	1.400	Low viscosity dimethicone for formulating products that require great spreading and lubricity without the greasiness
<b>Dimethisil® DM-50</b>	Dimethicone	1.402	Excellent light lubricity in skin applications. Can provide added gloss in hair care products. Used to prevent whitening when spreading stearate based creams and lotions.
<b>Dimethisil® DM-350</b>	Dimethicone	1.403	Excellent light lubricity in skin applications. Can provide added gloss in hair care products. Used to prevent whitening when spreading stearate based creams and lotions
<b>Dimethisil® DM-12,500</b>	Dimethicone	1.403	Used to provide added gloss and shine in hair care shampoos and conditioners.

## HINDERED AMINE SILICONE FLUIDS

Product Name	INCI Name	Viscosity cP	Features
<b>Dimethisil® HNH-LV</b>	Propoxytetramethyl Piperidiny Dimethicone	250	Unique cationic modified silicone fluid. Enables clear conditioning shampoos and body washes.
<b>Dimethisil® HNH-MV</b>	Propoxytetramethyl Piperidiny Dimethicone	10,000	Unique cationic modified silicone fluid. Improves wet and dry comb, adds softness to hair.
<b>Dimethisil® HNH-HV</b>	Propoxytetramethyl Piperidiny Dimethicone	90,000	Unique cationic modified silicone fluid. Substantive to hair and skin.

## SHINE ENHANCERS

Product Name	INCI Name	Retractive Index	Features
<b>Shineblend® 6005</b>	C13-14 Isoparaffin (and) Cyclopentasiloxane	1.423	Economical shine enhancer for pump spray applications. Can be used as the base formula and modified with additional functional or marketing raw materials.
<b>Shineblend® 9710</b>	Cyclopentasiloxane (and) Cyclotetrasiloxane (and) Dimethicone	1.396	Feather-light, non-greasy hair shine spray that will leave all hair types with luminous shine. Ready to use product, simply add fragrance and functional additives for a market ready product.
<b>Shineblend® TR</b>	C13-14 Isoparaffin (and) Cyclopentasiloxane	1.419	Most economical of the Shineblend® series used in pump spray applications.
<b>Shineblend® MAX</b>	Diphenylsiloxy Phenyl Trimethicone (and) C12-15 Alkyl Benzoate	1.490	Specially formulated shine enhancing additive for colour cosmetics, hair and skin care applications.
<b>Shineblend® 9503</b>	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Dimethiconol (and) PEG-10 Dimethicone	1.397	Additive for silicone based styling aids that reduces wet hair blow drying time thus decreasing hair damage and saving time.

## FRIZZ CONTROL

Product Name	INCI Name	Diluent	Viscosity (cs)	NVC % (non-volatile content)	Appearance	Features
<b>Frizzblend® MAX</b>	Cyclopentasiloxane (and) Propoxytetramethyl Piperidiny Dimethicone	D5	3,500	50.0	Clear, viscous liquid.	A blend of hindered amine function silicone polymer delivered in a volatile carrier that provides excellent high humidity frizz control, curl definition and allows the hair to use its own natural structure to have long lasting curl memory. Ideal for use in frizz control serums and sprays.
<b>Frizzblend® MAX-CF</b>	Propoxytetramethyl Piperidiny Dimethicone (and) Dimethicone (and) Isododecane	DM/ID	1,500	50.0	Clear, viscous liquid.	Cyclic-free version of Frizzblend® MAX.
<b>Frizzblend® 3999</b>	Cyclopentasiloxane (and) Propoxytetramethyl Piperidiny Dimethicone (and) Dimethicone	D5	1,500	10.0	Clear, viscous liquid.	Ready to use, high frizz control serum blend that provides excellent high humidity frizz control and curl definition. Ideal for use in frizz control serums.

# SILICONES

## CYCLIC-SILICONE REPLACEMENTS

Product Name	INCI Name	Viscosity, cP	Flash Point	Features
<b>InnoSil 044</b>	Dimethicone (and) C10-11 Isoparaffin (and) Trisiloxane	2.3	51	Cyclic-free balanced combination of polydimethylsiloxanes and Isoparaffins that provides comparable volatility to a 90/10 composition of cyclotetrasiloxane and cyclopentasiloxane. Designed specifically for antiperspirants, cosmetic stick applications, and other applications where high volatility is desired.
<b>InnoSil 045</b>	Dimethicone (and) C11-12 Isoparaffin	4.2	60	Cyclic-free balanced combination of polydimethylsiloxanes and isoparaffins that provides comparable cyclopentasiloxane volatility. Designed specifically for antiperspirants, cosmetic stick applications.
<b>InnoSil 904</b>	Dimethicone (and) Trisiloxane	1.5	60	Cyclic-free composition containing a balanced combination of polydimethylsiloxanes that provides comparable cyclotetrasiloxane volatility. Useful in the development of antiperspirants, cosmetic stick products, and other applications where high volatility and faster dry down time is desired.
<b>InnoSil 905</b>	Dimethicone	4.2	77	Cyclic-free balanced combination of polydimethylsiloxanes that provides comparable cyclopentasiloxane volatility. Excellent carrier fluid for hair treatment Sprays and Serums that require faster volatility. Also can be used as an additive for skin care and sun care products to enhance application aesthetics.
<b>InnoSil 910</b>	Dimethicone (and) Trisiloxane	1.75	64	Cyclic-free and VOC free composition of polydimethylsiloxanes that provides a unique volatility curve with initial comparable volatility as cyclopentasiloxane that breaks away from the cyclopentasiloxane curve and continue to provide a faster volatility profile. Excellent delivery vehicle for products that a slightly extend rub in time but overall a slightly faster drying time.
<b>InnoSil 925</b>	Dimethicone (and) C11-13 Isoparaffin	4.2	81	Cyclic-free balanced combination of polydimethylsiloxanes and isoparaffins that provides comparable cyclopentasiloxane volatility. Useful in developing hair treatment sprays and serums in countries where VOC limits are regulated. Can also be used as an additive for skin care and sun care products to enhance application aesthetics.
<b>InnoSil 935</b>	Dimethicone (and) C11-13 Isoparaffin	4.2	67	Cyclic-free balanced composition of polydimethylsiloxanes and isoparaffins that provides comparable cyclopentasiloxane volatility. Useful in developing hair treatment sprays and serums in countries where VOC limits are not regulated. Can also be used as an additive for skin care and sun care products to enhance application aesthetics.
<b>InnoSil 955</b>	Dimethicone (and) C11-13 Isoparaffin	4.2	64	Cyclic-free blend of polydimethylsiloxanes and Isoparaffins that provides similar volatility cyclopentasiloxane. Useful in developing hair treatment sprays and serums in countries where VOC limits are not regulated. Can be used as an additive for skin care and sun care products to enhance application aesthetics.



## CYCLIC-SILICONE REPLACEMENTS (CONT.)

Product Name	INCI Name	Diluent	Viscosity, cP	NVC%	Features
<b>InnoSil 1481-DM</b>	Dimethicone (and) Isododecane (and) Trisiloxane	DM/IDD	3,800	18.0	Cyclic-free compositions of polydimethylsiloxanes, isododecane, and an ultra-high molecular weight dimethicone fluid. Has comparable volatility and application aesthetics as Cosmetic Fluid 1486-DM.
<b>InnoSil 1486-DM</b>	Dimethicone (and) Isododecane (and) Trisiloxane	DM/IDD	3,800	18.0	Cyclic-free compositions of polydimethylsiloxanes, isododecane, and an ultra-high molecular weight dimethicone fluid. Has comparable volatility and application aesthetics as Cosmetic Fluid 1486-DM.
<b>InnoSil 1580-OH</b>	Dimethicone (and) Dimethiconol (and) Trisiloxane (and) Isododecane	DM/IDD	3,800	18.0	Cyclic-free composition of polydimethylsiloxanes, isododecane, and an ultra-high molecular weight dimethiconol fluid. Has comparable volatility and application aesthetics as Cosmetic Fluid 1585-OH.
<b>InnoSil 1585-OH</b>	Dimethicone (and) Dimethiconol (and) Isododecane	DM/IDD	3,800	18.0	Cyclic-free composition of polydimethylsiloxanes, isododecane, and an ultra-high molecular weight dimethiconol fluid. Has comparable volatility and application aesthetics as Cosmetic Fluid 1585-OH.
<b>InnoSil 1880-OH</b>	Dimethicone (and) Dimethiconol (and) C11-12 Isoparaffin	DM/IP	3,800	18.0	Cyclic-free composition of polydimethylsiloxanes, isoparaffins, and an ultra-high molecular weight dimethiconol fluid. Has similar volatility and application aesthetics as Cosmetic Fluid 1585-OH.
<b>InnoSil 1881-DM</b>	Dimethicone (and) C11-13 Isoparaffin	DM/IP	3,800	18.0	Cyclic-free blend of polydimethylsiloxanes, isoparaffins, and an ultra-high molecular weight dimethicone fluid. Has similar volatility and application aesthetics as Cosmetic Fluid 1486-DM.
<b>InnoSil 1883-OH</b>	Dimethicone (and) Dimethiconol	DM	3,800	18.0	Cyclic and VOC free of polydimethylsiloxanes and an ultra high molecular weight dimethicone fluid. Has similar volatility and application aesthetics as Cosmetic Fluid 1585-OH.
<b>InnoSil 1885-OH</b>	C11- 13 Isoparaffin (and) Dimethicone (and) Dimethiconol	DM/IP	3,800	18.0	Cyclic-free composition of polydimethylsiloxanes, Isoparaffins, and an ultra-high molecular weight dimethiconol fluid. Has similar volatility and application aesthetics as Cosmetic Fluid 1485-OH.
<b>InnoSil 1886-DM</b>	Dimethicone (and) C11-13 Isoparaffin	DM/IP	3,800	18.0	Cyclic-free, high VOC composition of polydimethylsiloxanes, Isoparaffins, and an ultra-high molecular weight dimethicone fluid. Has comparable volatility and application aesthetics to Cosmetic Fluid 1486-DM.
<b>InnoSil 8106</b>	Trisiloxane (and) Dimethicone	TS	15,000	26.0	High viscosity silicone thickening agent for serums or the silicone phase of water-in silicone emulsions.
<b>InnoSil 8308</b>	Dimethicone (and) IDD	DM/ID	3,800	20.0	Cyclic free version of Gelaid 8317. Excellent additive to serums or to be used as serum for anti-frizz, thermal protectants and shine products.

## EMOLLIENTS AND SOLVENTS

### BENZOATE ESTERS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Finsolv® TN</b>	C12-15 Alkyl Benzoate	68411-27-8	non-vegetable	Clear, almost colorless liquid.	Good solvent for actives, light dry feel. Improved transparency in anti-perspirant applications.
<b>Finsolv® TN-2</b> <i>RSPO Mass Balance version available</i>	C12-15 Alkyl Benzoate	68411-27-8	28%	Clear, almost colorless liquid.	Good solvent for actives, light dry feel. Improved transparency in anti-perspirant applications.
<b>Finsolv® TN-O</b>	C12-15 Alkyl Benzoate	68411-27-8	non-vegetable	Clear, almost colorless liquid.	Further refined odorless version of Finsolv® TN.
<b>Finsolv® PG-22</b>	Dipropylene Glycol Dibenzoate	27138-31-4	non-vegetable	Clear, almost colorless, to pale yellow liquid.	Excellent sunscreen solvent.
<b>Finsolv® TPP</b>	C12-15 Alkyl Benzoate (and) Dipropylene Glycol Dibenzoate (and) PPG-15 Stearyl Ether Benzoate	68411-27-8, 27138-31-4, 108347-90-6	non-vegetable	Clear, almost colorless, to pale yellow liquid.	Unique proprietary blend of esters optimized for high sunscreen solvency and elegant skin feel.

### ALIPHATIC ESTERS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Activemol EH-25</b>	C12-15 Alkyl Ethylhexanoate	90411-66-8	non-vegetable	Clear, colorless, to pale yellow liquid.	Light emollient ester for velvety, light skin feel.
<b>Activemol DOM-R</b>	Diethylhexyl Maleate	142-16-5	non-vegetable	Clear, almost colorless liquid.	Light emollient ester that imparts shine to hair; effective squalane replacement.

### SALICYLATE ESTER

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Sunsolv® BOS</b>	Butyloctyl Salicylate	190085-41-7	non-vegetable	Clear, almost colorless liquid.	Versatile multifunctional ingredient which improves aesthetics and performance of sunscreens, skin care and color cosmetics. It is highly effective as a sunscreen active solubilizer and photostabilizer, inorganic pigment wetter, emollient, moisturizer and carrier.

### SPECIALTY SOLVENTS WITH EMOLLIENCY - CARBONATES

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Activemol GC</b>	Hydroxypropylene Carbonate	931-40-8	75%	100% active liquid.	Solvent with wetting and moisturizing properties, low toxicity, low evaporation rate and low flammability.
<b>Activemol PC</b>	Propylene Carbonate	108-32-7	non-vegetable	100% active liquid.	Solvent with wetting and moisturizing properties, low toxicity, low evaporation rate and low flammability.

## DISPERSANTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Dispersun DSP-OL100</b>	Polyhydroxystearic Acid	58128-22-6	100%	Amber, to brown, viscous liquid.	Excellent dispersants for metal oxides in sunscreens and cosmetics. Suitable for non-aqueous systems.
<b>Dispersun DSP-OL300</b>	Polyhydroxystearic Acid	58128-22-6	100%	Amber, to brown, viscous paste.	Excellent dispersants for metal oxides in sunscreens and cosmetics. Suitable for non-aqueous systems.
<b>Dispersun DSP-W90</b>	PEG-26-PPG-30 Phosphate	37280-82-3	non-vegetable	Clear, to pale brown, viscous liquid.	Excellent dispersants for metal oxides. Suitable for aqueous systems.

## CONDITIONING AGENTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Activsoft C-13</b>	Guar Hydroxypropyltrimonium Chloride	65497-29-2	87%	Yellow, free-flowing powder.	Self-hydrating moderately charged cationic conditioning polymer for skin and hair. For use in clear-in-hand and opaque liquid formulations and soap bars.
<b>Activsoft C-14</b>	Guar Hydroxypropyltrimonium Chloride	65497-29-2	67%	Yellow, free-flowing powder.	Moderately charged cationic conditioning polymer for skin and hair. For use in clear-in-hand and opaque liquid formulations and soap bars.
<b>Activsoft C-14H</b>	Guar Hydroxypropyltrimonium Chloride	65497-29-2	67%	Yellow, free-flowing powder.	Similar to Activsoft C-14 but with a higher viscosity.
<b>Activsoft C-17</b>	Guar Hydroxypropyltrimonium Chloride	65497-29-2	67%	Yellow, free-flowing powder.	Highly charged cationic conditioning polymer for skin and hair. For use in clear-in-hand and opaque liquid formulations and soap bars.
<b>Activsoft CD</b>	Guar Hydroxypropyltrimonium Chloride	65497-29-2	67%	White, to light yellowish, fine powder.	Medium cationic charge, low viscosity guar for skin care applications. For use in clear-in-hand and opaque liquid formulations and soap bars.
<b>Condicare PQ 7</b> <small>Paraben Free version available</small>	Polyquaternium-7	26590-05-6	non-vegetable	10% active clear, colorless viscous liquid	Cationic polymer ideal for use in cleansing applications. Highly water soluble and compatible with anionic systems.
<b>Condicare PQ10-4</b>	Polyquaternium-10	68610-92-4	synthetic	Light yellow powder.	Polymeric cationic conditioning agent compatible with anionic, nonionic, cationic and amphoteric systems. Gives effective deposition of silicones onto the hair when used in 2-in-1 shampoos containing dimethicones, etc.
<b>Empigen® S18</b>	Stearamidopropyl Dimethylamine	7651-02-7	78%	White, waxy flakes.	Silicone-free hair conditioning agent, minimizes the build-up effect, provides conditioning and anti-static effect. Formulation viscosity builder.

## VARIOUS

### CHELATING AGENTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Natrlquest® E30</b>	Trisodium Ethylenediamine Disuccinate	178949-82-1	non-vegetable	37% active, pale, clear liquid.	Unique readily biodegradable chelating agent. Effective as a preservative potentiator and anti-oxidant in formulations.

### RHEOLOGY MODIFIERS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Activsoft S</b>	Cyamopsis Tetragonoloba (Guar) Gum	9000-30-0	100%	Off-white, to pale yellow powder.	Naturally derived viscosity-building polymer and foam stabilizer. Does not require neutralization.

### EMULSIFIERS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Empilan® DPHS</b>	PEG-30 Dipolyhydroxystearate	70142-34-6	71%	100% active, red-brown, waxy paste.	Effective water-in-oil emulsifier providing high long term stability to skin care and make-up formulations. Allows inner water phase up to 80%. Range of application 1-5%.
<b>Empiphos® O3D</b>	Oleth-3 Phosphate	91254-26-1	56%	99% active liquid.	Powerful oil-in-water emulsifier which can easily be neutralized in situ with a wide range of organic or inorganic bases. It is supplied in free acid form to give flexibility and adaptability to formulations. Its emulsifying property, pH, thickening ability and suspending effect depend upon the type of based used to neutralize it.
<b>Empiwax® CL</b> <small>RSPO Mass Balance version available</small>	Cetearyl Alcohol (and) Cetareth-25	67762-27-0, 68439-49-6	>80%	100% active, off-white flakes.	Emulsifying wax with high electrolyte tolerance, dispersing, thickening and solubilizing properties. For use in skin, body and baby care.
<b>Empiwax® SK/BP</b> <small>RSPO Mass Balance version available</small>	Cetearyl Alcohol (and) Sodium Lauryl Sulfate	67762-27-0, 68955-19-1	100%	100% active, off-white flakes.	Emulsifying wax with high electrolyte tolerance, dispersing, thickening and solubilizing properties. For use in skin, body and baby care.

## SKIN ANTI-AGING AND BRIGHTENING AGENTS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Maritech® Bright</b>	<i>Fucus vesiculosus</i> extract	84696-13-9	100%	Mid to dark brown powder	A clinically proven skin brightening ingredient which significantly increases radiance and reduces the pigmentation of age spots. Maritech® fucoidan products are extracted from sustainably harvested seaweeds.
<b>Maritech® Reverse</b>	<i>Undaria pinnatifida</i> extract	223751-81-3	100%	Off-white to brown powder.	A clinically proven skin brightening ingredient that provides soothing, protecting and anti-aging properties. Maritech® fucoidan products are extracted from sustainably harvested seaweeds.

## PEARLIZERS

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Empilan® EGDS/A</b> <small>RSPO Mass Balance version available</small>	Glycol Distearate	91031-31-1	94%	100% active, off-white flakes.	Pearlizing agent, opacifier, oil soluble emulsifier and viscosity modifier in personal cleansing systems.
<b>Empilan® EGMS</b> <small>RSPO Mass Balance version available</small>	Glycol Cetearate	91031-31-1	89%	100% active, off-white flakes.	Pearlizing agent, opacifier, oil soluble emulsifier and viscosity modifier.
<b>Laurex® CS</b> <small>RSPO Mass Balance version available</small>	Cetearyl Alcohol	67762-27-0	100%	100% active, off-white flakes.	Viscosity, consistency and skin feel modifier. Oil soluble co-emulsifier. Emollient viscosity builder in creams, lotions and conditioners.

## PEARL CONCENTRATES

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Preservative system	Features
<b>Empipearl® XA 200/X</b> <small>RSPO Mass Balance version available</small>	Sodium Laureth Sulfate (and) Glycol Cetearate (and) Cocamidopropyl Betaine	68585-34-2, 91031-31-1, 61789-40-0	>80%	40% active, soft paste.	Methylchloroisothiazolinone and methylisothiazolinone	Cold processable concentrated blend of anionic, non-ionic and amphoteric surfactants. For use in rinse-off cleansing products such as shampoo and body wash. Few percentages in the formulation provide rich and dense pearlizing effect.
<b>Empipearl® XA 300/X</b> <small>RSPO Mass Balance version available</small>	Sodium Laureth Sulfate (and) Glycol Distearate (and) Cocamide MEA (and) Cocamidopropyl Betaine	68585-34-2, 91031-31-1, 68140-00-1, 61789-40-0	>80%	40% active, soft paste.	Methylchloroisothiazolinone and methylisothiazolinone	Cold processable concentrated blend of anionic, non-ionic and amphoteric surfactants. For use in rinse-off cleansing products such as shampoo and body wash. Few percentages in the formulation provide rich and dense pearlizing effect.
<b>Empipearl® XA 300/G</b>	Sodium Laureth Sulfate (and) Glycol Distearate (and) Cocamide MEA (and) Cocamidopropyl Betaine	68585-34-2, 91031-31-1, 68140-00-1, 61789-40-0	>80%	40% active, soft paste.	Benzyl alcohol and salicylic acid and glycerin and sorbic acid	Cold processable concentrated blend of anionic, non-ionic and amphoteric surfactants. For use in rinse-off cleansing products such as shampoo and body wash. Few percentages in the formulation provide rich and dense pearlizing effect.

## VARIOUS

### PEARL CONCENTRATES (CONT.)

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Preservative system	Features
<b>Empipearl® XA 400/X</b> <i>RSPO Mass Balance version available</i>	Sodium Laureth Sulfate (and) Glycol Distearate (and) Cocamide MEA (and) Laureth-10	68585-34-2, 91031-31-1, 68140-00-1, 68002-97-1	>80%	40% active, soft paste.	Methylchloroiso-thiazolinone and methyliso-thiazolinone	Cold processable concentrated blend of anionic and non-ionic surfactants. For use in rinse-off cleansing products such as shampoo and body wash. Few percentages in the formulation provide rich and dense pearling effect.

### HYDROTROPES

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Eltesol® SC 40</b>	Sodium Cumenesulfonate	28348-53-0, 15763-76-5, 32073-22-6	non-vegetable	40% active liquid.	Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics, recommended in cosmetic products based on ammonium and amine salts.
<b>Eltesol® SX 40</b>	Sodium Xylenesulfonate	1300-72-7	non-vegetable	40% active liquid.	Solubilizing, coupling and viscosity modifying agent, increases the cloud point of non-ionics, recommended in cosmetic products based on ammonium and amine salts.

### ANTI-BACTERIAL AGENT

Product Name	INCI Name	CAS No.	Naturally Derived	Properties	Features
<b>Empigen® BKC 50<sup>TT</sup></b> <i>RSPO Mass Balance version available</i>	Benzalkonium Chloride	68424-85-1, 8001-54-5, 85409-22-9	59%	50% active liquid.	Traditional cleansing agent with anti-microbial properties often used in liquid soaps.

<sup>TT</sup> Please consult regional regulations for any restrictions on use in your particular application

Innospec has a proven track record in personal care. Our ingredients are used in many of the most popular-selling brands on sale in the world today. We are ready to support your next formulation project, so let's talk.

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

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