



Driven by Innovation, Powered by Partnership

Inspiring a more beautiful life.

Product Catalog



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FULFILLING
THE PROMISE
OF A MORE
BEAUTIFUL LIFE

Around the world, people are inspired to live better through innovations in skin care, hair care and skin cleansing, created in partnership with Lubrizol Life Science (LLS).

Leveraging the Lipotec™ Active Ingredients expertise, LLS Beauty brings you one of the most innovative and substantiated portfolios of active ingredients in the beauty industry.

Our polymer technologies bring differentiated solutions to enhance functional performance, deliver aesthetic benefits and superior sensory experience to help consumers to live a more beautiful life.

Ingredient expertise is just the beginning to our story of going further together. Add in our global organization’s consumer insights, formulation experience and manufacturing capabilities for a powerful, world-class partnership.

SUSTAINABILITY BEYOND NATURALITY

Your organization is on a sustainability journey, and the destination is clear. Let LLS Beauty put you on the best possible path with courageous ingredient innovation that is grounded in responsible science and delivers excellent performance.

Working together, we can help you anticipate, understand and respond proactively to the challenges you face in achieving your sustainability goals. Our constantly growing nature-based portfolio is just one way we can help. Rest assured that LLS Beauty will be your complete sustainability partner.



The LLS Compass Sustainability Plan is inspired by the United Nations Sustainable Development Goals, and directs us on a course to lower our environmental impact wherever possible and to bring others along on our journey.

Visit go.Lubrizon.com/compass



WHAT'S NEXT IS ALREADY HERE.

Being first to market is always within reach with the LLS Beauty team on your side. We're continually working ahead, investigating market trends and technologies, and uncovering key insights that lead us to next-generation, consumer-driven ingredient solutions like these.



Lapagyl™

advanced botanical ingredient

Let your youth blossom.

- The tree of life for skin longevity
- Preventing telomere shortening and senescence
- Skin that looks better for longer

AlgaPūr™

high stability high oleic algae oil

From chestnut tree sap, a rich bio-oil for healthier hair and scalp.

- Complete care of the hair and scalp
- Unique composition with unprecedented oxidative stability
- High sustainability profile



Kelco-Care™

diutan gum

Efficient by nature *for hair and skin*

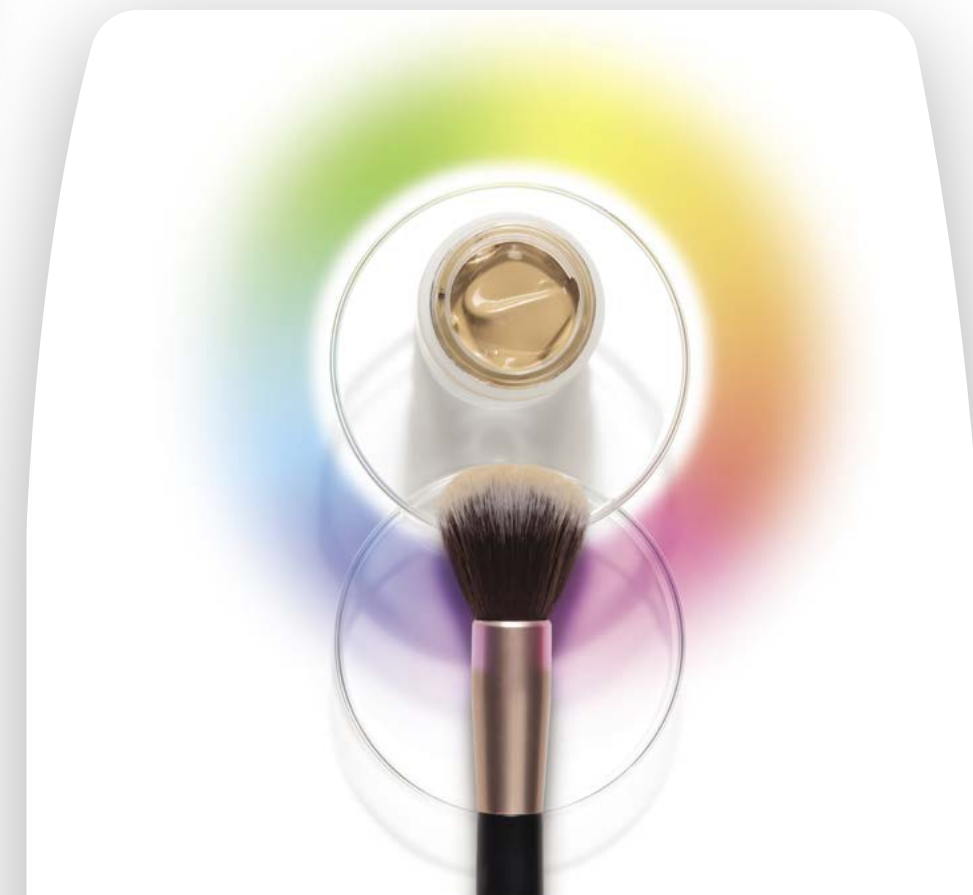
- Versatile bio-based rheology modifier at low use levels
- Silky sensory benefits without drag or stickiness
- In hair - fiber protection and split ends repair
- Electrolyte-boosting effect and high-temperature stability
- High sustainability profile

#skincaringmakeup collection

Vibrant performance for skin caring makeup.

Bringing a legacy of skin health science to color cosmetics to help you create look-good, feel-good makeup for the face, lips and eyes. The best-in-class ingredient selection that ensures your makeup's formulations:

- Disperse and cover evenly
- Feel weightless
- Are long-wearing
- Pigments appear rich
- Textures remain smooth



MANY ACTIVE INGREDIENTS. ONE BEAUTIFUL STORY.

Rely on Lipotec™ Active Ingredients' skin biology expertise to stimulate your creative process and help you to bring innovative stories to the market.



PEPTIDE SYNTHESIS

A virtually endless source of new active ingredients designed to stimulate, inhibit or mimic specific targets, covering a wide range of functions within skin care.



BOTANICAL EXPERTISE

An extensive variety of quality botanical extracts and ingredients from throughout the world, prioritizing innovation, technology and sustainability.



BIOTECHNOLOGY

Natural molecules with specific cosmetic benefits obtained from living microorganisms through sustainable bioprocesses.





DELIVERY SYSTEM & MOLECULAR FILM TECHNOLOGY




Controlled release technologies for enhanced stability and bioavailability of the active ingredient.

Our in-house clinical studies laboratory in Barcelona allows us to support ingredient development beyond *in vitro* assays, speeding the testing process. By testing our formulas in-house, we can put you one step ahead with differentiating claims already validated.


PEPTIDES AND MOLECULES

	Anti-aging	Anti-cellulite/ Slimming	Anti-stretch Marks	Anti-wrinkle	Breast Firming	Delivery	DNA Care	Even Skin Tone	Eye Care	Firming/ Restructuring	Glowing	Hand Care	Hair Care	Lip Care	Moisturizing	Peeling	Protection/ Prevention	Regenerating	Sebum Control	Sensitive Skin/ Soothing	Sun Care	Toning	Well-being
Adifyline® peptide	●				●							●											
 Argireline® Amplified peptide	●			●						●	●												
Argireline® peptide				●																			
Argirelox™ peptide				●																			
Bodyfensine® peptide												●					●		●	●			
Chromabright® molecule								●				●											
Dawnergy™ peptide	●								●		●												
Decorinyl® functional ingredient										●													
Delisens™ peptide												●								●			
Dglyage® functional ingredient							●										●						
Diffuporine® peptide												●			●								
Eyeseryl® peptide									●														
 Fensebiome™ peptide												●					●			●			
Hilurlip® functional ingredient														●									
Inyline® peptide				●																			
Juveleven™ peptide							●										●				●		
Lipochroman® molecule											●	●					●				●		
Liporeductyl® functional ingredient		●																					
Pollushield™ functional ingredient												●					●						
Preventhelia® peptide																	●				●		
Relistase® peptide	●																						
Reproage™ peptide	●										●	●											
Serilesine® peptide										●													
Silusyne® functional ingredient		●																					
Snap-8™ peptide				●																			
Telangyn™ peptide																				●			
Thermostressine® peptide																	●						
Trylagen® functional ingredient				●						●		●											
Uplevity™ peptide										●		●											
Vanistryl® functional ingredient			●																				
Vilastene™ functional ingredient																	●				●		

BIOTECHNOLOGICAL INGREDIENTS

	Anti-aging	Anti-cellulite/ Slimming	Anti-stretch Marks	Anti-wrinkle	Breast Firming	Delivery	DNA Care	Even Skin Tone	Eye Care	Firming/ Restructuring	Glowing	Hand Care	Hair Care	Lip Care	Moisturizing	Peeling	Protection/ Prevention	Regenerating	Sebum Control	Sensitive Skin/ Soothing	Sun Care	Toning	Well-being
Actigym™ marine ingredient				●																		●	
Antarcticine® marine ingredient				●						●		●								●			
Brighlette™ marine ingredient								●				●											
Cellynkage™ marine ingredient	●											●											
Eyedeline™ marine ingredient									●														
Hyadisine® marine ingredient				●								●			●								
Hyanify™ marine ingredient				●								●											
Lumicease™ blue ingredient												●					●				●		
 Matmarine™ biotech ingredient																		●					
Nocturshape™ blue ingredient		●																					
Seacode™ marine ingredient				●																			
 Seascalp™ biomarine ingredient													●										
 Uniclay™ biotech ingredient																	●						●

MOLECULAR FILMS

Ion-Moist™ 4Men molecular film												●			●								
Lipomoist™ 2013 molecular film												●			●								
Lipomoist™ 2036 molecular film										●		●			●								
Peelmoist™ molecular film												●			●	●							
 Xpertmoist® molecular film												●			●		●						

DELIVERY SYSTEMS

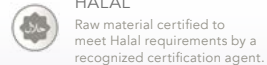
	Anti-aging	Anti-cellulite/ Slimming	Anti-stretch Marks	Anti-wrinkle	Breast Firming	Delivery	DNA Care	Even Skin Tone	Eye Care	Firming/ Restructuring	Glowing	Hand Care	Hair Care	Lip Care	Moisturizing	Peeling	Protection/ Prevention	Regenerating	Sebum Control	Sensitive Skin/ Soothing	Sun Care	Toning	Well-being
PMLs liposomes						●																	

BOTANICAL INGREDIENTS

Actifcol™ advanced botanical ingredient										●		●											
Actifirm® Ultra DiPG advanced botanical ingredient										●		●											
Actifoliate™ advanced botanical ingredient											●	●				●							
Actiguard™ advanced botanical ingredient												●								●			
Actisoothe® advanced botanical ingredient												●								●			
Actizyme® advanced botanical ingredient								●			●	●				●							
Lapagyl™ advanced botanical ingredient	●								●		●				●								
Stevisse™ advanced botanical ingredient				●																			

PEPTIDES AND MOLECULES

	INCI	CLAIMS	SOLUBILITY	USE LEVEL*	NATURAL ORIGIN CONTENT	
Adifyline® peptide	Butylene Glycol, Water (Aqua), Acetyl Hexapeptide-38	Perfect curves against gravity <ul style="list-style-type: none">Stimulates adipogenesis <i>in vitro</i>Increases cheek volumeProvides a curvy silhouette	Soluble in water	2%	49.99%	-
Argireline® Amplified peptide	Water (Aqua), Acetyl Hexapeptide-8, Sodium Benzoate	Amplifying beauty, simplifying routines <ul style="list-style-type: none">Green chemistry-based multifunctional peptideRecovered skin appearance after facial expressions5 years younger-looking skin in only 5 days	Soluble in water	2–5%	99.5%	 
Argireline® peptide	Water (Aqua), Acetyl Hexapeptide-8, Caprylyl Glycol	The first peptide for expression wrinkles <ul style="list-style-type: none">A safer topical alternative to Botulinum ToxinEffective in just 1 weekA widely known solution for 1st to appear wrinkles	Soluble in water	2–10%	99.49%	 
Argirelox™ peptide	Water (Aqua), Glycerin, Acetyl Hexapeptide-8, Pentapeptide-18, Citric Acid, Caprylyl Glycol	While waiting for the next injection <ul style="list-style-type: none">Complements the effect of BoNT-A between sessionsMaintains and prolongs wrinkle reductionAlmost 3 times better than the injection alone	Soluble in water	10%	99.48%	-
Bodyfensine® peptide	Butylene Glycol, Water (Aqua), Acetyl Dipeptide-3 Aminohexanoate	A reinforcement of the skin's natural defense system <ul style="list-style-type: none">A tripeptide that keeps skin healthyStimulates β-defensins expression <i>in vitro</i>Protects skin from external agents	Soluble in water	2–5%	19.95%	-
Chromabright® molecule	Dimethylmethoxy Chromanyl Palmitate	A cutting-edge molecule for a radiant skin tone <ul style="list-style-type: none">Skin brightening and photoaging preventionSafety and efficacy togetherResults in only 2 months	Soluble in oils and certain solvents	0.1–0.5%	(0.57) [#]	
Dawnergy™ peptide	Water (Aqua), Sodium Phosphate, Nonapeptide-1, Disodium Phosphate, Caprylyl Glycol	Radiant skin first thing in the morning <ul style="list-style-type: none">Turns on the cellular alarm clock <i>in vitro</i>Boosts mitochondrial power <i>in vitro</i>Anti-fatigue effect for active lifestyles	Soluble in water	1%	99.45%	 
Decorinyl® functional ingredient	Water (Aqua), Lecithin, Tripeptide-10 Citrulline, Carbomer, Triethanolamine, Caprylyl Glycol, Phenoxyethanol	Collagen organization to restore skin suppleness <ul style="list-style-type: none">Helps improve fibrillogenesis <i>in vitro</i>Controls fibril dimensions <i>in vitro</i>Gives suppleness to the skin	Dispersible in water	5%	98.02%	
Delisens™ peptide	Butylene Glycol, Water (Aqua), Citric Acid, Acetyl Hexapeptide-49	Sensitive skin without signs <ul style="list-style-type: none">Down-regulates PAR-2 activity <i>in vitro</i>Attenuates neurogenic inflammationHelps barrier function recovery	Soluble in glycols	2–5%	20.00%	-
Dglyage® functional ingredient	Water (Aqua), Propanediol, Lysine HCl, Lecithin, Phenoxyethanol, Tripeptide-9 Citrulline	Protects DNA from glycation a step before	Dispersible in water	2–5%	97.49%	-
Diffuporine® peptide	Butylene Glycol, Water (Aqua), Acetyl Hexapeptide-37	Inner hydration to rejuvenate the skin <ul style="list-style-type: none">Increases AQP3 levels <i>in vitro</i>Improves skin moisturizationMaintains skin's youthful appearance	Soluble in water	2%	49.98%	-



Value corresponds to an index (not a content) since the product is not a mixture of ingredients (according to ISO 16128).











*Use Level wt% as supplied

PEPTIDES AND MOLECULES

	INCI	CLAIMS	SOLUBILITY	USE LEVEL*	NATURAL ORIGIN CONTENT	
 Eyeseryl® peptide	Glycerin, Water (Aqua), Acetyl Tetrapeptide-5	A tetrapeptide with a demonstrated efficacy against puffy eyebags <ul style="list-style-type: none">• Reduced eyebag volume after only 14 days• Decreased appearance of dark circles• Improved under-eye region in men and women	Soluble in water	1–10%	99.96%	 
 Fensebiome™ peptide	Water (Aqua), Acetyl Heptapeptide-4, Caprylyl Glycol	Reconnect with your origins for healthier skin <ul style="list-style-type: none">• Strengthening the double barrier function• Metagenomics analysis on urban skin• Protection from hand sanitizers	Soluble in water	1%	99.49%	 
Hilurlip® functional ingredient	Isohexadecane, Ethylene/Propylene/Styrene Copolymer, Butylene/Ethylene/Styrene Copolymer, Sodium Hyaluronate, Xanthan Gum, Phenoxyethanol, Tripeptide-1	A non-surgical treatment for supreme lips <ul style="list-style-type: none">• Enhances moisturization of lips• Produces a long-term plumping effect• Prevents premature aging of the lips	Dispersible in oils	2%	2.11%	
Inyline® peptide	Water (Aqua), Acetyl Hexapeptide-30, Arginine, Caprylyl Glycol	A new strategy to escape from expression lines <ul style="list-style-type: none">• Targets the post-synaptic pathway• Disrupts AChR clustering <i>in vitro</i>• Attenuates expression wrinkles	Soluble in water	5%	99.49%	-
 Juveleven™ peptide	Butylene Glycol, Water (Aqua), Acetyl Hexapeptide-51 Amide	Guardian of genomic integrity <ul style="list-style-type: none">• Cell rejuvenation <i>in vitro</i> by over 10 years• Key element in preserving the vital code• Decreases signs of UV-induced damage	Soluble in water	2%	19.99%	-
Lipochroman® molecule	Dimethylmethoxy Chromanol	Provides antioxidant shelter and promotes complete detox <ul style="list-style-type: none">• Triple protection: from ROS, RNS and RCS• In & out detox• Better skin appearance in 14 days	Soluble in aromatic solvents and esters	0.01–0.05%	(0,00)#	 
Liporeductyl® functional ingredient	Water (Aqua), Glycerin, Lecithin, Caffeine, Ruscus Aculeatus Root Extract, Tea-Hydroiodide, Carnitine, Butylene Glycol, Escin, Hedera Helix (Ivy) Leaf/Stem Extract, Tripeptide-1, Maltodextrin, Chondrus Crispus (Carrageenan) Extract, Xanthan Gum, Hydrated Silica, Caprylyl Glycol, Phenoxyethanol, Potassium Sorbate	No trace from cellulite <ul style="list-style-type: none">• Prevents adipocyte maturation <i>in vitro</i>• Minimizes fat accumulation and the appearance of cellulite• Provides a slimming effect	Dispersible in water	5–10%	80.82%	
 Pollushield™ functional ingredient	Water (Aqua), Propanediol, Diisopropyl Adipate, Lecithin, Acrylic Acid/Acrylamidomethyl Propane Sulfonic Acid Copolymer, Dimethylmethoxy Chromanol, Glyceryl Caprylate, Xanthan Gum	Ward off pollutants from the skin <ul style="list-style-type: none">• Anti-pollution barrier and antioxidative defense• Efficacy proven in cities around the world• Reduced dullness and spots in only 14 days	Dispersible in water	2–5%	87.42%	  
Preventhelia® peptide	Water (Aqua), Diaminopropionoyl Tripeptide-33, Caprylyl Glycol	A pure concept that protects the skin from aging <ul style="list-style-type: none">• Peptide born from preventive cosmetics• Effective RCS radical scavenger• Preserves skin from photoaging	Soluble in water	0.5–5%	99.45%	-
Relistase® peptide	Glycerin, Acetylarginyltryptophyl Diphenylglycine	Enhances resilience in mature skin <ul style="list-style-type: none">• Inhibits elastase activity <i>in vitro</i>• Boosts collagen synthesis <i>in vitro</i>• Improves skin tightness	Soluble in water	4%	99.99%	-

PEPTIDES AND MOLECULES









	INCI	CLAIMS	SOLUBILITY	USE LEVEL*	NATURAL ORIGIN CONTENT	
 Reproage™ peptide	Water (Aqua), Disodium Phosphate, Acetyl Hexapeptide-8, Sodium Phosphate, Caprylyl Glycol	Reprogramming the skin for a youthful appearance <ul style="list-style-type: none">• Epigenetics brought to cosmetics• Recovery of the stemness potential• Improved complexion of both younger and older skin	Soluble in water	2%	99.49%	
Serilesine® peptide	Water (Aqua), Glycerin, Hexapeptide-10, Caprylyl Glycol	Double activity to firm the appearance of the skin <ul style="list-style-type: none">• 305% synthesis of laminin-5 <i>in vitro</i>• 405% expression of α6-integrin <i>in vitro</i>• 19% increased cutaneous density	Soluble in water	1–10%	99.49%	-
 Silusyne® functional ingredient	Water (Aqua), Isohexadecane, Propanediol, Sorbitan Sesquiolate, Phenoxyethanol, Acetyl Hexapeptide-39, Starch Hydroxypropyltrimonium Chloride, Sodium Hyaluronate, Sodium Lactate, Hydroxypropyl Starch Phosphate, Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Sclerotium Gum, Urea, Sodium Chloride, Potassium Cetyl Phosphate, Sodium Benzoate	New approach for the persistent problem of cellulite <ul style="list-style-type: none">• Novel delivery system in the submicron scale range• Reduces adipogenesis by decreasing PGC-1α <i>in vitro</i>• Flattens the dermo-hypodermal junction	Dispersible in water	2%	89.33%	-
Snap-8™ peptide	Water (Aqua), Acetyl Octapeptide-3, Caprylyl Glycol	An octapeptide to express yourself at ease <ul style="list-style-type: none">• Minimize appearance of persistent expression wrinkles• Premium efficacy at a lower dosage• Up to 56% roughness reduction	Soluble in water	3–10%	99.49%	 
Telangyn™ peptide	Water (Aqua), Acetyl Tetrapeptide-40, Caprylyl Glycol	Takes out the thread of redness <ul style="list-style-type: none">• Inhibition of the inflammatory effect of LL-37 <i>in vitro</i>• Decrease of skin erythema• Improvement of skin redness appearance	Soluble in water	2%	99.49%	-
Thermostressine® peptide	Glycerin, Water (Aqua), Acetyl Tetrapeptide-22	No signs of stress in skin <ul style="list-style-type: none">• Prevents skin from jet-lag• Protection against daily stress• Boosts HSP70 levels <i>in vitro</i>	Soluble in water	2–5%	99.99%	-
 Trylagen® functional ingredient	Water (Aqua), Pseudoalteromonas Ferment Extract, Hydrolyzed Wheat Protein, Hydrolyzed Soy Protein, Tripeptide-10 Citrulline, Tripeptide-1, Lecithin, Butylene Glycol, Xanthan Gum, Carbomer, Triethanolamine, Caprylyl Glycol, Phenoxyethanol	A trifunctional ingredient for an integral collagen treatment <ul style="list-style-type: none">• Helps boost collagen synthesis <i>in vitro</i>• Creates more uniform fibril diameter and spacing <i>in vitro</i>• Inhibits enzymatic destruction <i>in vitro</i>	Soluble in water	1–5%	98.63%	 
Uplevity™ peptide	Water (Aqua), Acetyl Tetrapeptide-2, Caprylyl Glycol	Counteracting the force of gravity <ul style="list-style-type: none">• Creator of functional elastin• Aids in restructuring the dermis to look 9 years younger• Lifting effect and reshaping of the face contour	Soluble in water	1–2%	99.49%	 
Vanistryl® functional ingredient	Water (Aqua), Caprylyl/Capryl Glucoside, Lecithin, 1,2-Hexanediol, Glycerin, Pseudoalteromonas Ferment Extract, Acetyl Tripeptide-30 Citrulline, Pentapeptide-18, Xanthan Gum, Potassium Sorbate, Caprylyl Glycol	A novel complex to get rid of stretch marks once and for all <ul style="list-style-type: none">• Decrease of the appearance of redness• Increase in skin elasticity• Visible reduction of stretch marks	Soluble in water	5%	98.19%	-
Vilastene™ functional ingredient	Water (Aqua), Lysine HCl, Lecithin, Caprylyl Glycol, Phenoxyethanol, Tripeptide-10 Citrulline, Carbomer, Sodium Hydroxide	Protects aging of skin structural proteins <i>in vitro</i>	Dispersible in water	2-5%	97.45%	

MOLECULAR FILMS	INCI	CLAIMS	SOLUBILITY	USE LEVEL*	NATURAL ORIGIN CONTENT	
Ion-moist™ 4men molecular film	Water (Aqua), Glycerin, Calcium Pantothenate, Xanthan Gum, Urea, Caprylyl Glycol, Glucose, Magnesium Lactate, Potassium Chloride, Potassium Lactate, Magnesium Chloride, Sodium Citrate, Citric Acid, Ethylhexylglycerin	A non-stop moisturizer for men's skin care	Soluble in water	3–10%	93.99%	 
Lipomoist™ 2013 molecular film	Water (Aqua), Xanthan Gum, Caprylyl Glycol, Phenoxyethanol, Glucose, Chondrus Crispus (Carrageenan) Extract, Ethylhexylglycerin	24 hours and long-lasting moisturizing effect	Soluble in water	7–10%	97.50%	 
Lipomoist™ 2036 molecular film	Water (Aqua), Xanthan Gum, Phenoxyethanol, Caprylyl Glycol, Hydrolyzed Wheat Protein, Hydrolyzed Soy Protein, Pectin, Arginine, Proline, Serine, Butylene Glycol, Glucose, Chondrus Crispus (Carrageenan) Extract, Tocopherol, Ethylhexylglycerin	High moisturizing profile and significant firmness effect on the skin	Soluble in water	5%	97.00%	 
Peelmoist™ molecular film	Water (Aqua), Glycerin, Maltodextrin, Calcium Pantothenate, Xanthan Gum, Urea, Caprylyl Glycol, Proline, Alanine, Serine, Magnesium Lactate, Potassium Lactate, Magnesium Chloride, Sodium Citrate, Papain, Ethylhexylglycerin	Peeling and moisturization, a powerful alliance	Soluble in water	5–10%	94.21%	 
Xpertmoist® molecular film	Water (Aqua), Glycerin, Pseudoalteromonas Ferment Extract, Xanthan Gum, Proline, Alanine, Serine, Sodium Phosphate, Sodium Hydroxide, Tocopherol, Caprylyl Glycol, Ethylhexylglycerin	Extreme moisturization and regeneration for the driest skin	Soluble in water	5–10%	98.38%	 

DELIVERY SYSTEMS

PMLs liposomes	Water (Aqua), Lecithin, Chondrus Crispus (Carrageenan) Extract, Carbomer	Liposomes containing hydrophilic and/or lipophilic ingredients for skin delivery and stabilizing them	Dispersible in water	3–10%	-	-
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BIOTECHNOLOGICAL INGREDIENTS

	INCI	CLAIMS	SOLUBILITY	USE LEVEL*	NATURAL ORIGIN CONTENT	
Actigym™ marine ingredient	Glycerin, Water (Aqua), Bacillus/Soybean Ferment Extract	A secret personal trainer <ul style="list-style-type: none">• Endurance training-like effect• Increase of <i>in vitro</i> adiponectin release• Improved results when combined with body and facial exercises	Soluble in water	5%	100%	  
Antarcticine® marine ingredient	Water (Aqua), Pseudoalteromonas Ferment Extract, Caprylyl Glycol	Perfect skin comes from the Antarctic <ul style="list-style-type: none">• A natural cryoprotector against extreme cold• For a firm and youthful complexion• Suitable for sensitive skin	Soluble in water	1–5%	99.63%	 
Brighlette™ marine ingredient	Glycerin, Water (Aqua), Hydrolyzed Yeast Extract, Glycolipids	Step by step to perfectly even skin tone <ul style="list-style-type: none">• Radiant and fair complexion• Reduces the appearance of dark spots size and color• Multi-approach against pigmentation	Soluble in water	2%	100%	  

* For further information on specific references, please contact your sales representative



CHINA COMPLIANT



HALAL
Raw material certified to meet Halal requirements by a recognized certification agent.



ECOCERT-COSMOS
COSMOS - Raw material approved by ECOCERT GREENLIFE, conforms to the EcoCert standard or COSMOS standard.







PALM OIL (RSPO)
Certified RSPO supply chain. Certification may only be available for selected manufacturing sites.

*Use Level wt% as supplied

BIOTECHNOLOGICAL INGREDIENTS

	INCI	CLAIMS	SOLUBILITY	USE LEVEL*	NATURAL ORIGIN CONTENT	
Cellynkage™ marine ingredient	Propanediol, Water (Aqua), Saccharide Isomerate	The secret behind ageless beauty <ul style="list-style-type: none">• Increased connexins levels <i>in vitro</i>• Improves direct and crosstalk among cells <i>in vitro</i>• Improved hormonally-aged skin	Soluble in glycerin	2–5%	100%	
Eyedeline™ marine ingredient	Butylene Glycol, Water (Aqua), Hydrolyzed Yeast Extract, Glycolipids	An impressive look in one touch <ul style="list-style-type: none">• Lessens the appearance of eyebags and dark circles• Smoothes eye contour lines• Provides glow for a younger look	Soluble in water	1–4%	6.05%	 
Hyadisine® marine ingredient	Water (Aqua), Pseudoalteromonas Ferment Extract, Citric Acid, Sodium Salicylate	Retains water to smooth the skin <ul style="list-style-type: none">• A biotechnological marine alternative to HA• Instant reduction of wrinkle appearance• Immediate and long-lasting moisturization	Soluble in water	1–10%	99.5%	  
Hyanify™ marine ingredient	Water (Aqua), Propanediol, Disodium Phosphate, Xanthan Gum, Saccharide Isomerate, Sodium Phosphate, Glyceryl Caprylate	Replenishing effect from the sea <ul style="list-style-type: none">• Boosts HA synthesis <i>in vitro</i>• Reduces the appearance of nasolabial folds in only 14 days• Biotechnology for mature skin	Soluble in water	1%	100%	
Lumicease™ blue ingredient	Glycerin, Water (Aqua), Hydrolyzed Pea Protein, Glucose, Sodium Chloride, Sodium Succinate	Get your skin ready for life in the light <ul style="list-style-type: none">• Triple protection from light• Skin preparation, protection and repair• Reduced visible and non-visible spots	Soluble in water	2%	100%	  
Matmarine™ biotech ingredient	Glycerin, Pseudoalteromonas Ferment Extract	Oily skin under control for all <ul style="list-style-type: none">• Targets MC5-R to decrease sebum levels <i>in vitro</i>• Reduced appearance of pores for a uniform complexion• Immediate and long-lasting mattifying and hydrating effects	Soluble in water	2–5%	100%	  
Nocturshape™ blue ingredient	Water (Aqua), Propanediol, Disodium Phosphate, Xanthan Gum, Saccharide Isomerate, Sodium Phosphate, Glyceryl Caprylate	Nocturinin, the target for a more slender silhouette <ul style="list-style-type: none">• Chronobiology for lipolysis activation• Slimming effect at nighttime• Overall cellulite appearance improvement in 15 days	Soluble in water	2–4%	100%	 
Seacode™ marine ingredient	Water (Aqua), Pseudoalteromonas Ferment Extract, Salicylic Acid, Citric Acid, Sodium Salicylate	Marine eraser for aging lines <ul style="list-style-type: none">• Visibly reduces upper lip lines in 1 week• Induction of collagen I <i>in vitro</i>• Rejuvenated skin appearance from the sea	Soluble in water	2%	99.50%	 
Seascalp™ biomarine ingredient	Water, Pseudoalteromonas Ferment Extract, Sodium Salicylate	No itch. No flakes. Just a healthy scalp and beautiful hair <ul style="list-style-type: none">• Biotechnological ingredient for a flake-free scalp• Less greasy and itchy scalp• Maintained effect 2 weeks post use	Soluble in water	3%	99.50%	  
Uniclay™ biotech ingredient	Glycerin, Water (Aqua), Bacillus Ferment	Well-being you can feel and see <ul style="list-style-type: none">• Multifunctional clay-like ingredient• Clean, smooth and flawless skin for multiple ethnicities• Improved well-being and self-perception	Soluble in water	2–3%	100%	  

BOTANICAL INGREDIENTS

	INCI	CLAIMS	SOLUBILITY	USE LEVEL*	NATURAL ORIGIN CONTENT	
Actifcol™ advanced botanical ingredient	Water (Aqua), Glycerin, Sodium Citrate, Lentinus Edodes Extract, Potassium Sorbate, Sodium Benzoate, Phytic Acid	The elixir of life mushroom for a glamorous décolleté <ul style="list-style-type: none">• Increased PLOD1 for an enhanced collagen quality <i>in vitro</i>• Reduced carbamylation, a protein deterioration process <i>in vitro</i>• Improved appearance at neck and décolleté	Soluble in water	2–10%	97.96%	 
Actifirm™ Ultra DiPG advanced botanical ingredient	Dipropylene Glycol, SD Alcohol 40-B, Centella Asiatica Extract, Rosmarinus Officinalis (Rosemary) Leaf Extract, Echinacea Angustifolia Leaf Extract	Complementary extracts against aging <ul style="list-style-type: none">• Helps skin to rebuild dermal structure• Lifts appearance of saggy skin in 2 weeks• Visibly smoothes lines and wrinkles	Soluble in water	2–5%	12.50%	
Actifoliolate™ advanced botanical ingredient	Glycerin, Water (Aqua), Glucosamine HCl, Urea, Mucor Miehei Extract, Sodium Citrate, Sodium Benzoate, Potassium Sorbate, Disodium EDTA	Carefully sloughing off cells <ul style="list-style-type: none">• Reduced squame size for a non-scaly skin• Limited reactivity and irritation• Smoother skin perceived by volunteers	Soluble in water	1–10%	96.90%	

BOTANICAL INGREDIENTS	INCI	CLAIMS	SOLUBILITY	USE LEVEL*	NATURAL ORIGIN CONTENT	
Actiguard™ advanced botanical ingredient	Sorghum Bicolor Bran Extract, Glycerin, Water (Aqua), Potassium Sorbate	Ancient remedy for delicate skin <ul style="list-style-type: none">• Gluten-free cereal grain against inflammation• Immediate soothing of irritation• Sustainable care of overly reactive skin	Soluble in water	3–10%	99.82%	
Actisoothe® advanced botanical ingredient	Cordyceps Sinensis Extract, Trametes Versicolor Extract, Butylene Glycol, Water (Aqua), Sodium Citrate, Potassium Sorbate, Sodium Benzoate	A pacifier for reactive skin <ul style="list-style-type: none">• Fungi for skin care native to Himalaya• Soothing skin discomfort• Greater tolerance to cosmetics	Soluble in water	2–5%	0%	
Actizyme® advanced botanical ingredient	Water (Aqua), Mucor Miehei Extract, Glycerin, Sodium Citrate, Potassium Sorbate, Sodium Benzoate, Phytic Acid	Gentle exfoliation to light up the skin <ul style="list-style-type: none">• Mimics natural exfoliation• Improves clarity of the skin• Reduces irritation and barrier disruption	Soluble in water	1–10%	98.01%	 
 Lapagyl™ advanced botanical ingredient	Brassica Campestris (Rapeseed) Seed Oil, Tabebuia Impetiginosa Bark Extract, Polyglyceryl-3 Diisostearate.	Let your youth blossom <ul style="list-style-type: none">• The tree of life for skin longevity• Preventing telomere shortening and senescence• Skin that looks better for longer	Oil soluble	2-3%	100%	 
 Stevisse™ advanced botanical ingredient	Glycerin, Water (Aqua), Stevia Rebaudiana Leaf/Stem Extract	Smoothing the natural passing of time <ul style="list-style-type: none">• Vegan ingredient extracted from eco-friendly technology• Gentler and more natural alternative to retinoids• Visibly fades wrinkles	Soluble in water	2%	100%	  

FUNCTIONAL INGREDIENTS

FUNCTIONAL INGREDIENTS THAT STIMULATE THE SENSES AND YOUR GROWTH

LLS Beauty links world-renowned expertise in polymer technologies with everyday lives and consumer needs to deliver stability and performance in a diversity of superior sensory experiences.

We routinely put our applications and formulation expertise to the test, assessing the sensory contribution of our technologies through regional panels aligned with local preferences.



SKIN FUNCTIONAL INGREDIENTS

LLS Beauty offers ample expertise in polymer technologies that deliver a beautiful skin experience and provide consumers with distinct sensory and texture benefits, gentle hydration and elegant after-feel.



Sun Care

- Product forms with good aesthetics and high sun protection
- In-house capabilities to measure reproducibly SPF, UVA and critical wavelength
- Proprietary methods to assess water and sand resistance

Color Cosmetics

- Developmental support for body, face, eye and lip products
- Dedicated laboratory with specific grinding equipment
- In-house test methodology to measure color development, texture and transfer resistance

SKIN INGREDIENTS SUMMARY

RHEOLOGY MODIFIERS

	Thickener	Emulsifier	Film Former	Emollient	Humectant	Pigment Compatibility	Electrolyte Tolerance	Sprayability	UV Filter Solubilization	Skin Sensory	Color Cosmetics	Skin Care	Sun Care
	Functions					Additional Benefits				Applications			
Carbopol® Aqua SF-1 OS polymer	●	●	●			*	*	*		L-M	●	●	●
Carbopol® Ultrez 10 polymer	●									L		●	●
Carbopol® Ultrez 21 polymer	●									L-M		●	●
Carbopol® Ultrez 30 polymer	●						*			M-H		●	●
Kelco-Care™ diutan gum*	●						*			L	●	●	●
Novethix™ L-10 polymer	●	●						*		L	●	●	●
Oilkemia™ 5S polymer	●					*	●	●		L	●	●	●

POLYMERIC EMULSIFIERS

Novemer™ EC-2 CC polymer	●	●				●	*			M	●	●	●
Pemulen™ TR-1 polymer	●	●								L		●	●
Pemulen™ EZ-4U polymeric emulsifier	●	●						●		L		●	●
Pemulen™ TR-2 polymeric emulsifier	●	●						*		L	●	●	●

EMULSIFIERS

Glucamate™ SSE-20 emulsifier		●				●				L	●	●	●
Glucate™ DO emulsifier		●		●		●		●		M-H	●	●	●
Glucate™ SS emulsifier	●	●								L	●	●	●

FILM FORMERS

Avalure™ AC 120 polymer			●			●				L-M	●		
Avalure™ Flex-6 CC polymer	●	●	*			*	*			L	●	●	●
Avalure™ UR 450 polymer			●			●				M-H	●		
Fixate™ G-100 PR polymer			●							L-M	●		

H: Heavy
M: Medium
L: Light

* Highly recommended
● Recommended

* Kelco-Care™ diutan gum products are manufactured by CP Kelco USA, Inc. Kelco-Care™ diutan gum is a trademark of CP Kelco and is used by Lubrizol under license. Lubrizol has a global agreement with CP Kelco for this product in the beauty and personal care market.

EMOLLIENTS

	Thickener	Emulsifier	Film Former	Emollient	Humectant	Pigment Compatibility	Electrolyte Tolerance	Sprayability	UV Filter Solubilization	Skin Sensory	Color Cosmetics	Skin Care	Sun Care
	Functions				Additional Benefits					Applications			
AlgaPür™ HSHO algae oil*				●						M	●	●	●
Hydramol™ TGL ester				●	●	●				M-H	●	●	●
Schercemol™ 105 ester				●					●	L	●	●	●
Schercemol™ 1818 ester				●						M-H	●	●	●
Schercemol™ 318 ester				●		*				M	●	●	●
Schercemol™ CATC CN ester				●		*				H	●	●	●
Schercemol™ CO ester				●						L	●	●	●
Schercemol™ DIA ester				●					*	L		●	●
Schercemol™ DIS ester				●		●			*	L		●	●
Schercemol™ DISD ester				●		*				H	●	●	●
Schercemol™ DISM ester				●		●				H	●		
Schercemol™ LL ester				●					*	L		●	●
Schercemol™ NGDO ester				●		*				L	●	●	●
Schercemol™ PTID ester				●						H	●		
Schercemol™ SHS ester	●			●						M-H	●	●	●

HUMECTANTS

Glucam™ E-20 humectant				●	●					L-M	●	●	●
Glucam™ P-20 humectant				●	●					L-M	●	●	●

DISPERSANT

Matrifuse™ S-1 dispersant						*		*		L	●		●
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SPF BOOSTER

Sunhancer™ Eco SPF booster										L		●	●
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H: Heavy
M: Medium
L: Light

★ Highly recommended
● Recommended

*AlgaPür™ is a registered trademark of Corbion. Lubrizol has a global agreement with Corbion for this product in the beauty and personal care market.

Global Availability Please check with your sales representative for product availability in your region.

HUMECTANTS

	INCI	Features & Benefits	Product Form* (% TS/Active)	Optimal pH	Skin Sensory	Use Level**	RCI
Glucam™ E-20 humectant	Methyl Gluceth-20	Reduces defatting of the skin and tackiness of conventional humectant.	Liquid (100%)	5-9	Smooth, silky feel	1-5%	0.13
Glucam™ P-20 humectant	PPG-20 Methyl Glucose Ether	Detackifier, helps fragrance substantivity, reduces sting of alcohol.	Liquid (100%)	5-9	Smooth, silky feel	1-5%	0.09

EMULSIFIERS

	INCI	Features & Benefits	Product Form* (% TS/Active)	Emulsifier Type	HLB	Optimal pH	Skin Sensory	Use Level*	RCI
Glucamate™ SSE-20 emulsifier	PEG-20 Methyl Glucose Sesquistearate	O/W emulsifier, enables robust emulsion stabilization in combination with Glucate SS, imparts mildness.	Soft Solid	O/W	15 ± 1	4-8	Smooth and soft afterfeel	0.5-5%	0.41
Glucate™ DO emulsifier	Methyl Glucose Dioleate	Naturally derived W/O emulsifier, emulsion stabilizer, pigment dispersant, imparts mildness.	Liquid (100%)	W/O	5 ± 1	4-8	Smooth and satiny afterfeel	0.5-5%	0.98
Glucate™ SS emulsifier	Methyl Glucose Sesquistearate	Naturally derived W/O emulsifier, enables robust emulsion stabilization and liquid crystals formation, pigment dispersant, imparts mildness.	Flake	W/O	6 ± 1	4-8	Smooth and soft afterfeel	0.5-5%	0.97

FILM FORMERS

	INCI	Features & Benefits	Product Form* (% TS/Active)	Optimal pH	Skin Sensory	Use Level*	RCI
Avalure™ AC 120 polymer	Acrylates Copolymer	Abrasion resistant and breathable film; removable with soap and water; disperses pigments.	Liquid (29%)	3-10	Hard, durable films with rapid hardness development; high gloss	1-30%	0
Avalure™ Flex-6 CC polymer	PEG-240/HDI Copolymer bis-Decyltetradeceth 20 Ether, Trideceth-6	Multifunctional film-former enabling HLB independent emulsification in O/W or W/O emulsions with high levels of electrolytes or metal oxide pigments. Water resistance and sand resistance in sun care; moisturization and TEWL reduction in skin care.	Powder	3-10	Soft, comfortable film with velvety afterfeel	0.5-1.5	0
Avalure™ UR 450 polymer	PPG-17/IPDI/ DMPA Copolymer	Abrasion resistant and breathable film; disperses pigments and increases water-resistance; removable with soap and water.	Liquid (38%)	3-10	Hard, durable films with rapid hardness development; high gloss	1-30%	0
Fixate™ G-100 PR polymer	AMP-Acrylates/ Allyl Methacrylate Copolymer	Transfer resistant film, compatible with acrylate-based polymers for water-based systems; perceivable fragrance retention.	Liquid (26%)	3-10	Soft film, non-tacky	1-10%	0

SPF BOOSTER

















	INCI	Features & Benefits	Product Form* (% TS/Active)	Use Level*	RCI
Sunhancer™ Eco SPF booster	Copernicia Cerifera Wax (and) Oryza Sativa Wax	Natural-derived SPF booster contributing to the improvement of the senroy . It is inherently biodegradable and non-persistent in the environment	Powder	3-5%	1



*Product Form at 25degC
**Use Level wt% as supplied


RHEOLOGY MODIFIERS	INCI	Features & Benefits	Product Form* (% TS/Active)	Electrolyte Tolerance	Pigment Compatibility	Optimal pH	Skin Sensory	Use Level*	RCI	
 Carbopol® Aqua SF-1 OS polymer	Acrylates Copolymer	Emulsion stabilizer and pigment suspending agent for low viscosity system. Co-emulsifier in combination with polymeric emulsifiers.	Liquid (30%)		 except ZnO	6.5-11.0	Light, smooth	1-3%	0	 
Carbopol® Ultrez 10 polymer	Carbomer	Gels and emulsions of medium to high viscosity and smooth texture.	Powder			5-11	Light, fresh	0.1-1%	0	 
Carbopol® Ultrez 21 polymer	Acrylates/ C10-30 Alkyl Acrylate Crosspolymer	Gels and emulsions of medium to high viscosity and smooth texture.	Powder			5-11	Light, fresh	0.1-1%	0	 
Carbopol® Ultrez 30 polymer	Carbomer	Gels and emulsions of medium to high viscosity and smooth texture.	Powder			4-12	Rich, cushiony	0.1-1%	0	 
Kelco-Care™ diutan gum*	Sphingomonas Ferment Extract	Naturally derived stabilizer for emulsions of low to medium viscosity and smooth texture.	Powder			3-12	Light sensory with no residue	0.05–0.5%	0.95	
Novethix™ L-10 polymer	Acrylates/ Beheneth-25 Methacrylate Copolymer	Low to high viscosity gels and emulsions. Enables memory shape effect and bouncy textures.	Liquid (30%)			>6.5	Light, fresh	0.5-4%	0	 
Oilkemia™ 5S polymer	Caprylic/Capric Triglyceride, Polyurethane-79	Rheology modifier for oil systems with enchanting textures.	Flake	-		-	Smooth shear thinning texture with soft non-tacky afterfeel	1-6% (up to 30-45% for stick application)	0.73	-


POLYMERIC EMULSIFIERS


Novemer™ EC-2 CC polymer	Sodium Acrylates Copolymer, Hydrogenated Polydecene, Lauryl Glucoside	Easy-to-use multifunctional polymer designed for use in oil-in-water emulsions with electrolytes.	Liquid (28%)			5.5-11.0	Creamy, cushiony, dry and soft afterfeel	1-6%	0	 
Pemulen™ TR-1 polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Emulsions with medium to high levels of oils.	Powder			5-11	Light, fresh	0.2-0.4%	0	 
Pemulen™ TR-2 polymeric emulsifier	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Emulsions with high levels of oil and/or thin sprayable or wipes emulsions.	Powder			5-11	Light, fresh	0.1-0.3%	0	 
Pemulen™ EZ-4U polymeric emulsifier	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Emulsions with medium to high levels of oil for a wide range of viscosity (thin to medium).	Powder			4-11	Light, fresh	0.05-0.4%	0	 


DISPERSANT


Matrifuse™ S-1 dispersant	Polyhydroxystearic Acid, Neopentyl Glycol Diethylhexanoate	Oil dispersible pigment dispersant enabling fluid and light texture with uniform pigment deposition on skin.	Liquid (100%)	1-3%	0.79	
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 CHINA COMPLIANT

 ECOCERT-COSMOS
COSMOS - Raw material approved by ECOCERT GREENLIFE, conforms to the EcoCert standard or COSMOS standard.

 HALAL
Raw material certified to meet Halal requirements by a recognized certification agent.






















 PALM OIL (RSPO)
Certified RSPO supply chain. Certification may only be available for selected manufacturing sites.

 AWARD

Kelco-Care™ diutan gum products are manufactured by CP Kelco U.S., INC. Kelco-Care™ is a trademark of CP Kelco and is used under license.

***Product Form** at 25degC
***Use Level** wt% as supplied

EMOLLIENTS

AlgaPür™ HSHO algae oil*	Triolein	High stability bio-based oil.	Liquid (100%)	-	4-10	Silky, non-greasy	1-20%	1.00	
Hydramol™ TGL ester	Polyglyceryl-3 Laurate	Dispersible in aqueous systems. Co-emulsifier. Gloss and body.	Liquid (100%)	-	5-10	Brings emolliency to the water phase	1-10%	1.00	  
Schercemol™ 105 ester	Isodecyl Neopentanoate	Soluble in most hydrophilic solvents. Dispersible in polyols.	Liquid (100%)	10 ± 1	4-10	Very light and dry sensory	1-15%	0	
Schercemol™ 1818 ester	Isostearyl Isostear- ate	Low cloud point emollient for creams, lotions, and bath oils.	Liquid (100%)	10 ± 1	4-10	Substantive medium emolliency and luxurious softness	1-15%	1.00	 
Schercemol™ 318 ester	Isopropyl Isostear- ate	Able to disperse uncoated pigments.	Liquid (100%)	11 ± 1	4-10	Substantive medium emolliency and luxurious softness	1-15%	0.86	
Schercemol™ CATC CN ester	Pentaerythrityl Stearate/Caprates/ Caprylate/Adipate	Inorganic UV filter solubility.	Liquid (100%)	10.5 ± 1	4-10	Rich sensory without tackiness	1-15%	0.73	
Schercemol™ CO ester	Cetyl Ethylhexa- noate	Good solvency properties; applicable in make-up removers.	Liquid (100%)	10 ± 1	4-10	Light sensory	1-20%	0.67	 
Schercemol™ DIA ester	Diisopropyl Adipate	Organic UV filter solubility.	Liquid (100%)	7 ± 1	4-10	Light and dry sensory	1-10%	0	
Schercemol™ DIS ester	Diisopropyl Seb- acate	Organic UV filter solubility.	Liquid (100%)	9 ± 1	4-10	Light and dry sensory	1-10%	0.63	
Schercemol™ DISD ester	Diisostearyl Dimer Dilinoleate	Moisturizing emollient derived from essential (linoleic) fatty acid emollient. Excellent binder for pigmented products.	Liquid (100%)	11.5 ± 1	4-10	Rich sensory without tackiness	1-15%	1.00	
Schercemol™ DISM ester	Diisostearyl Malate	Excellent wetting agent and binder for powders and pigments. High shine.	Liquid (100%)	11.5 ± 1	4-10	Body at low viscosity with low tack	1-25%	0.10	
Schercemol™ LL ester	Lauryl Lactate	Organic UV filter solubility.	Liquid (100%)	14 ± 1	4-10	Light and dry sensory	1-15%	1.00	
Schercemol™ NGDO ester	Neopentyl Glycol Diethylhexanoate	Silicone-coated pigment dispersion and inorganic UV filter solubility. Alternative to Cyclomethicone (D5).	Liquid (100%)	9.5 ± 1	4-10	Light and silky sensory	1-20%	0	
Schercemol™ PTID ester	Triisostearyl Polyglyceryl-3 Dimer Dilinoleate	A high molecular weight, persistent polymeric emollient.	Liquid (100%)	10 ± 1	4-10	Body and high viscosi- ty with some tack; high shine	1-30%	1.00	 
Schercemol™ SHS ester	Isostearyl Hydroxystearate	Solid/butter.	Soft Solid	8 ± 1	4-10	Cream solid, rich, melting on skin	1-15%	0.10	 

*AlgaPür™ is a registered trademark of Corbion. Lubrizol has a global agreement with Corbion for this product in the beauty and personal care market.



SKIN CLEANSING FUNCTIONAL INGREDIENTS

The LLS Beauty portfolio contains a wide array of specialty rheology modifiers, surfactants and conditioning agents that enable you to create personal skin cleansers and other surfactant-based systems that offer aesthetic, hygienic cleansing and improved skin benefits.

Our differentiated and market-ready skin care ingredients enhance flow and texture, foaming and lathering, skin sensory, and fragrance for all types of personal cleansing products. Count on exceptional performance.

SKIN CLEANSING
INGREDIENTS SUMMARY

RHEOLOGY MODIFIERS

	Thickener	Suspending Agent	Emollient	Humectant	Foam Creaminess/ Volume	Foam Booster	Skin Sensory	Sulfate-Free*	Mild Cleansers	Sanitizing Gels	Hand Soap	Anti-bacterial Hand Soap
	Functions				Additional Benefits				Applications			
Arbalon™ R-50 cellulose liquid*		●						●	●		●	●
Carbopol® Aqua CC polymer	●	●									●	●
Carbopol® Aqua SF-1 polymer	●	●							●	●	●	
Carbopol® Aqua SF-2 polymer	●	●							●		●	
Carbopol® Aqua SF-3 polymer		●							●		●	
Carbopol® 980 polymer	●	●								●		
Carbopol® ETD 2020 polymer	●	●						●	●	●	●	
Carbopol® Smart 3000 polymer	●	●							●		●	●
Carbopol® Ultrez 10 polymer	●	●								●		
Carbopol® Ultrez 20 polymer	●	●						●	●	●	●	
Carbopol® Ultrez 21 polymer	●	●								●		
Glucamate™ DOE-120 thickener	●	●					●	●	●		●	●
Glucamate™ LT thickener	●	●					●	●	●		●	●
Glucamate™ VLT thickener	●	●					●	●	●		●	●
Novethix™ L-10 polymer	●								●		●	●

SURFACTANTS

Amidex™ CME surfactant						●		●	●		●	●
Amidex™ LIPA surfactant					●			●	●		●	●
Chembetaine™ ACB surfactant						●		●	●		●	●
Chembetaine™ C-42 surfactant						●		●	●		●	●
Chembetaine™ CAD surfactant						●		●	●		●	●
Chembetaine™ CGF surfactant						●		●	●		●	●
Chembetaine™ C-PHP surfactant						●		●	●		●	●
Chembetaine™ LEC surfactant						●		●	●		●	●
Chembetaine™ OL-30 surfactant			●			●		●	●		●	●

*Arbalon™ cellulose liquid products are manufactured by CP Kelco U.S., Inc. Arbalon™ is a trademark of CP Kelco and is used by Lubrizol under license. Lubrizol has a global agreement with CP Kelco for this product in the beauty and personal care market.

*Sulfate-Free No known alkyl or alkyl ether sulfate content
Global Availability Please check with your sales representative for product availability in your region.

SURFACTANTS	Thickener	Suspending Agent	Emollient	Humectant	Foam Creaminess/ Volume	Foam Booster	Skin Sensory	Sulfate-Free*	Mild Cleansers	Sanitizing Gels	Hand Soap	Anti-bacterial Hand Soap
	Functions				Additional Benefits			Applications				
Chembetaine™ SB surfactant					●	●		●	●		●	●
Chemccinate™ DSLS-BA surfactant					●			●	●		●	
Chemoryl™ LS surfactant						●		●	●		●	
Chemoryl™ SCI surfactant					●	●		●	●		●	
Chemoryl™ SFB-10SSB surfactant					●			●	●		●	
Chemoryl™ SFB-4SB surfactant					●			●	●		●	
Chemoxide™ CAW surfactant					●			●	●		●	●
Potassium Cocoate					●			●			●	
Quickpearl™ EGL pearlizing agent											●	●
Quickpearl™ PSB3 pearlizing agent								●	●		●	●
Schercoteric™ C-2 50LT surfactant					●			●	●		●	●
Sulfochem™ ALS-SB surfactant					●						●	
Sulfochem™ EA-1SB surfactant					●						●	
Sulfochem™ EA-2SB surfactant					●						●	
Sulfochem™ EA-703US surfactant					●				●		●	
Sulfochem™ ES-2BZ surfactant					●						●	
Sulfochem™ ES-2PSB surfactant					●						●	
Sulfochem™ ES-56US surfactant					●						●	
Sulfochem™ ES-70US surfactant					●						●	
Sulfochem™ SLS-PHP surfactant					●						●	

*Sulfate-Free No known alkyl or alkyl ether sulfate content

CONDITIONING	Thickener	Suspending Agent	Emollient	Humectant	Foam Creaminess/ Volume	Foam Booster	Skin Sensory	Sulfate-Free*	Mild Cleansers	Sanitizing Gels	Hand Soap	Anti-bacterial Hand Soap
	Functions				Additional Benefits			Applications				
Merquat™ 281 polymer					●		●	●			●	●
Merquat™ 295 polymer					●		●	●			●	●
Merquat™ 2001 polymer					●		●	●			●	●
Merquat™ 2003PR polymer						●	●	●			●	●
Merquat™ 3330PR polymer					●		●	●	●		●	●
Merquat™ 3331PR polymer					●		●	●	●		●	●
Merquat™ 3940 polymer					●		●	●	●		●	●
Merquat™ 550PR polymer					●		●	●	●		●	●
Merquat™ 740 polymer					●		●	●	●		●	●
Merquat™ 7SPR polymer					●		●	●	●		●	●
Sensomer™ CI-50 polymer					●		●	●	●		●	●

EMOLLIENTS

Hydramol™ PGPL ester			●	●			●	●	●	●	●	●
Hydramol™ TGL ester			●				●	●	●	●	●	●
Schercemol™ DIS ester			●		●		●	●	●	●	●	●
Schercemol™ LL ester			●		●		●	●	●	●	●	●















HUMECTANTS

Glucam™ E-10 humectant				●			●	●	●	●	●	●
Glucam™ E-20 humectant				●			●	●	●	●	●	●
Glucam™ P-10 humectant				●			●	●	●	●	●	●
Glucam™ P-20 humectant				●			●	●	●	●	●	●
Glucquat™ 125 humectant				●			●	●			●	●

RHEOLOGY MODIFIERS	INCI	Features & Benefits	Product Form* (% TS/Active)	Flow Characteristics	Suspension	Clarity*	Ease of Dispersion	Optimal pH	Use Level*	RCI	
Arbalon™ R-50 cellulose liquid*	Glycerin, Cellulose, Cellulose Gum	Natural, fermentation-derived and eco-friendly. Robust suspension in skin cleansers without affecting viscosity. Can generate pleasant flow and stabilize creamy, luxurious foam.	Liquid (12%)	Long	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	3-12	2-10%	0.99	<div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div>
Carbopol® 980 polymer	Carbomer	Excellent at creating hydroalcoholic gels with great clarity.	Powder	Short	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	7.0-7.5	0.2-0.5%	0	<div><div><div></div><div></div><div></div></div></div>
Carbopol® Aqua CC polymer	Polyacrylate-1 Crosspolymer	Offers smooth flow, shear-thinning rheology, suspension, and high clarity in low pH applications. Cationic compatible.	Liquid (20%)	Medium	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	1-5	1-15%	0	-
Carbopol® Aqua SF-1 polymer	Acrylates Copolymer	Cost-effective, easy-to-use liquid that suspends, stabilizes, thickens and enhances the appearance of surfactant-based and soap-based personal cleansers. Ability to thicken hydroalcoholic gels with good clarity.	Liquid (30%)	Long	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> **	<div><div></div><div></div><div></div></div>	3-8 7.0-7.6**	5-10%	0	<div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div>
Carbopol® Aqua SF-2 polymer	Acrylates Crosspolymer-4	Offers thickening, suspension and high clarity in surfactant systems at low pH levels typical of food grade-preserved cleansing systems.	Liquid (32%)	Long	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	3-6	4-10%	0	<div><div><div></div><div></div><div></div></div></div>
<div><div></div></div> Carbopol® Aqua SF-3 polymer	Acrylates Copolymer	Enables robust suspension and high clarity in water-thin surfactant formulations. Broad compatibility with packaging dispensers, especially foamer pump heads.	Liquid (25.5%)	Long	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	5-8	4-10%	0	<div><div><div></div><div></div><div></div></div></div>
Carbopol® ETD 2020 polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Excellent thickening efficiency, suspending capability, long viscous flow, and sparkling clarity in gel cleansing formats. A great option for creating hydroalcoholic gels with excellent clarity.	Powder	Medium	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> **	<div><div></div><div></div><div></div></div>	5-10 7.0-7.5**	0.1-1% 0.2-0.5%**	0	<div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div>
Carbopol® Smart 3000 polymer	Acrylates/ Beheneth-25 Methacrylate/HEMA Crosspolymer-2	Creates elegant rheology with powerful suspension and excellent clarity in the mid pH range. Enables formulation flexibility and ease of processing with no neutralization required.	Liquid (25%)	Long	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	3.5-8	4-12%	0	-
Carbopol® Ultrez 10 polymer	Carbomer	Self-wetting polymer which makes for simpler processing in high alcohol content systems. Create hydroalcohol gels with excellent clarity.	Powder	Short	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	7.0-7.5	0.2-0.5%	0	<div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div>
Carbopol® Ultrez 20 polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Easy-to-use, self-wetting powder that rapidly disperses. Stabilizes and thickens cleansing products while providing electrolyte tolerance and unique sensory benefits in formulations. A great option for creating hydroalcoholic gels with excellent clarity.	Powder	Medium	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> **	<div><div></div><div></div><div></div></div>	5-10 6.5-7.5**	0.1-1% 0.2-0.5%**	0	<div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div>
Carbopol® Ultrez 21 polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Self-wetting polymer which makes for simpler processing in high alcohol content systems. Create a highly viscous hydroalcohol gel with exceptional clarity.	Powder	Short	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	6.5-7.5	0.2-0.5%	0	<div><div><div></div><div></div><div></div></div></div>















RHEOLOGY MODIFIERS	INCI	Features & Benefits	Product Form* (% TS/Active)	Flow Characteristics	Suspension	Clarity*	Ease of Dispersion	Optimal pH	Use Level*	RCI	
Glucamate™ DOE-120 thickener	PEG-120 Methyl Glucose Dioleate	Low viscosity thickener. Enhances mildness in cleansing products. Non-irritating to the eyes.	Flake	Long	None	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	5-10	0.5-5%	0.15	<div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div>
Glucamate™ LT thickener	PEG-120 Methyl Glucose Trioleate, Propylene Glycol, Water	Low-viscosity thickener that enhances mildness in cleansing products. Contributes to luxurious sensory properties with retention of lather and light afterfeel.	Liquid (40%)	Long	None	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	5-10	1-12%	0.10	<div><div><div></div><div></div><div></div></div></div>
Glucamate™ VLT thickener	PEG-120 Methyl Glucose Trioleate, Propanediol	Thickens and enhances mildness in cleansing products. Contributes to luxurious sensory properties with retention of lather and light afterfeel.	Liquid (70%)	Long	None	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	5-10	0.7-7%	0.30	<div><div><div></div><div></div><div></div></div></div>
Novethix™ L-10 polymer	Acrylates/ Beheneth-25 Methacrylate Copolymer	Enables memory shape effects and bouncy textures. Can thicken cleansers to stiff gels while maintaining sprayability. Easy to use and cold processable.	Liquid (30.3%)	Long	None	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	6-8	1-9%	0	<div><div><div></div><div></div><div></div></div></div>







HUMECTANTS	INCI	Features & Benefits	Product Form* (% TS/Active)	Optimal pH	Skin Sensory	Use Level*	RCI	
Glucam™ E-10 humectant	Methyl Gluceth-10	Moisturizes skin while reducing tacky feel. Low irritation potential. Does not interfere with foam performance.	Liquid (100%)	5-9	Light and airy skin feel	1-5%	0.22	<div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div>
Glucam™ E-20 humectant	Methyl Gluceth-20	Moistures skin while reducing tacky feel. Low irritation potential, reduces defatting of the skin. Improves flow properties. Helps prevent soap bars from cracking.	Liquid (100%)	5-9	Light and airy skin feel	1-5%	0.13	<div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div>
Glucam™ P-10 humectant	PPG-10 Methyl Glucose Ether	Creates a luxurious skin feel in surfactant systems. Detackifier. Increases foam wetness. Improves solubility in oily systems.	Liquid (100%)	5-9	Smooth, silky skin feel	1-5%	0.16	<div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div>
Glucam™ P-20 humectant	PPG-20 Methyl Glucose Ether	Oil and water soluble. Delivers humectancy with a lubricious, emollient skin feel. Acts as a fragrance fixative by subduing volatilization of high notes.	Liquid (100%)	5-9	Luxurious skin feel	1-5%	0.09	<div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div>
Glucquat™ 125 humectant	Lauryl Methyl Gluceth-10 Hydroxypropyldimonium Chloride	Naturally derived, mild humectant that is compatible with a wide range of materials. Delivers light, satiny afterfeel to the skin.	Liquid (25%)	4-8	Light and satiny skin feel	1-5%	0.3	<div><div><div></div><div></div><div></div></div></div>








CONDITIONING POLYMERS									
	INCI	Features & Benefits	Product Form* (% TS/Active)	Foam Type	Optimal pH	Skin Sensory	Use Level*	RCI	
Merquat™ 281 polymer	Polyquaternium-22	Excellent clarity and foam performance in sulfated systems	Liquid (41%)	Dense	4-10	Soft, conditioned	0.2-1.0%	0	
Merquat™ 295 polymer	Polyquaternium-22	Provides creamier foam for soap and amino acid based cleansing systems.	Liquid (38%)	Dense	4-10	Soft, conditioned	0.2-1.0%	0	
Merquat™ 2001 polymer	Polyquaternium-47	Imparts smooth feel and moisturization to skin. Generates rich and luxurious foam.	Liquid (21%)	Minimal effect	3-12	Soft, conditioned	0.5-2.3%	0	 
Merquat™ 2003PR polymer	Polyquaternium-53	Improves skin moisture retention while increasing flash foam and foam stability.	Liquid (21%)	Minimal effect	3-12	Soft, conditioned	0.5-2.2%	0	
Merquat™ 3330PR polymer	Polyquaternium-39	Imparts a smooth, velvety feel to skin while reducing irritation and tightness after drying in cleansing products. Provides richer, thicker foam with improved stability.	Liquid (10.9%)	Minimal effect	3-12	Soft, conditioned	1-4.3%	0	
Merquat™ 3331PR polymer	Polymquaternium-39	Imparts a smooth, velvety feel to skin while reducing irritation and tightness after drying in cleansing products. Provides richer, thicker foam with improved stability.	Liquid (10.9%)	Minimal effect	3-12	Soft, conditioned	1-4.3%	0	
Merquat™ 3940 polymer	Polyquaternium-39	Imparts a smooth, velvety feel to skin while reducing irritation and tightness after drying in cleansing products. Provides richer, thicker foam with improved stability.	Liquid (43%)	Dense	3-12	Soft, conditioned	0.2-1%	0	
Merquat™ 550PR polymer	Polyquaternium-7	Provides excellent moisturization and imparts a smooth, velvety feel to skin. Generates rich, creamy foam and reduces tightness after drying.	Liquid (9.3%)	Minimal effect	3-12	Soft, conditioned	1-5%	0	 
Merquat™ 740 polymer	Polyquaternium-7	Imparts a smooth, velvety feel to skin while reducing tightness after drying. Provides rich, creamy foam.	Liquid (43%)	Dense	3-12	Soft, conditioned	0.2-1%	0	
Merquat™ 7SPR polymer	Polyquaternium-7	Provides excellent moisturization and imparts a smooth, velvety feel to skin. Generates rich, creamy foam and reduces tightness after drying.	Liquid (9.3%)	Minimal effect	3-12	Soft, conditioned	1-5%	0	 
Sensomer™ CI-50 polymer	Starch Hydroxy-propyltrimonium Chloride	Imparts superior conditioning properties and a smooth, non-tacky feel to skin. Enhances foam richness to generate long-lasting, creamy foam. Improves rheology. Non-paraben and non-GMO.	Liquid (32%)	Dense	4-10	Soft, conditioned	0.25-1.5%	0.92	

SURFACTANTS									
	INCI	Features & Benefits	Product Form* (% TS/Active)	Surfactant Type	Preservative	Sulfate-free*	Optimal pH	Use Level*	RCI
Amidex™ CME surfactant	Cocamide MEA	100% coconut-oil derived, foam enhancer, viscosity builder and stabilize. Generates a tight, dense, luxurious foam.	Flake	Non-ionic	Self-preserved	x	5-8	0.5-3%	> 0.50
Amidex™ LIPA surfactant	Lauramide MIPA	Viscosity builder, foam enhancer, and stabilizer. An excellent secondary surfactant for tight, dense, luxurious lather. Can replace DEA and MEA amides at a 75% use level.	Flake	Nonionic	Self-preserved	x	5-8	0.5-3%	0.80

SURFACTANTS									
	INCI	Features & Benefits	Product Form* (% TS/Active)	Surfactant Type	Preservative	Sulfate-free*	Optimal pH	Use Level*	RCI
Chembetaine™ ACB surfactant	Coco-Betaine	100% coconut-derived liquid that serves as a viscosity builder and foam booster. Good electrolyte tolerance and mildness.	Liquid (43%)	Amphoteric	Self-preserved	x	> 4	5-10%	0.75
Chembetaine™ C-42 surfactant	Cocamidopropyl Betaine	Coconut oil dervied. Excellent foam and viscosity building.	Liquid (42%)	Amphoteric	Self-preserved	x	> 4.0	2.5-21%	0.65
Chembetaine™ CAD surfactant	Cocamidopropyl Betaine	Boosts foam, mildness, and viscosity with exceptional clarity. Premium, coconut fatty acid-derived product with high purity, extremely low color, and extremely low odor.	Liquid (35%)	Amphoteric	Self-preserved	x	> 4	3-25%	0.63
Chembetaine™ CGF surfactant	Cocamidopropyl Betaine	Exhibits excellent foam, mildness and viscosity building characteristics. Coconut fatty acid-derived and glycerin-free. High purity, low color and low odor.	Liquid (35%)	Amphoteric	Self-preserved	x	> 4	3-25%	0.63
Chembetaine™ C-PHP surfactant	Cocamidopropyl Betaine	Coconut oil-derived, high foaming, mild liquid that is very cost effective. Excellent flash foaming, irritation mitigation, wetting properties, and viscosity-building characteristics.	Liquid (35%)	Amphoteric	Self-preserved	x	> 4	3-25%	0.65
Chembetaine™ LEC surfactant	Lauramidopropyl Betaine	Exhibits excellent foam and viscosity-building characteristics. Synergistically provides mildness with the potential to reduce irritation. High purity, low color, and low odor.	Liquid (35%)	Amphoteric	Self-preserved	x	> 4	3-12%	0.63
Chembetaine™ OL-30 surfactant	Oleyl Betaine	Naturally derived, easy-to-handle, mild emollient that adds conditioning to cleansing products while building viscosity and enhancing foam.	Liquid (32%)	Amphoteric	Self-preserved	x	> 4	3-25%	0.79
Chembetaine™ SB surfactant	Cocamidopropyl Hydroxysultaine	Excellent secondary surfactant offering superior foam and wetting characteristics. Viscosity builder with high detergency. Low color, low odor.	Liquid (50%)	Amphoteric	Self-preserved	x	> 4	3-15%	0.60
Chemccinate™ DSLS-BA surfactant	Disodium Laureth Sulfosuccinate	Naturally derived. Provides effective yet mild cleansing and gentle foaming.	Liquid (39%)	Anionic	Benzoic Acid	x	5.5-8	5-40%	0.59
Chemoryl™ LS surfactant	Sodium Lauroyl Sarcosinate	Mild, high foaming, anionic amino acid surfactant. Can be used as a primary or secondary surfacant.	Liquid (30%)	Anionic amino-acid	Self-preserved	x	5-8	5-30%	0.89
Chemoryl™ SCI surfactant	Sodium Cocoyl Isethionate	Mild, high foaming surfactant with the ability to produce a stable, rich, and velveting lather.	Flake (noodle)	Anionic	Self-preserved	x	6-8	1.1%	> 0.50
Chemoryl™ SFB-10SSB surfactant	Disodium Laureth Sulfosuccinate, Sodium Cocoyl Isethionate, Cocamidopropyl Betaine	DEA and MEA amide-free blend offering very mild cleansing and gentle foaming in cleansing systems.	Liquid (32%)	Anionic / Amphoteric Blend	Sodium Benzoate	x	5.5-8	25-50%	0.62
Chemoryl™ SFB-4SB surfactant	Disodium Laureth Sulfosuccinate, Cocamidopropyl Betaine, Sodium Cocoyl Isethionate, Sodium Lauroyl Sarcosinate	DEA and MEA amide-free blend that produces mild, effective cleansing systems with good foam properties.	Liquid (33%)	Anionic / Amphoteric Blend	Sodium Benzoate	x	5.5-8	25-45%	0.62

SURFACTANTS	INCI	Features & Benefits	Product Form* (% TS/Active)	Surfactant Type	Preservative	Sulfate-free*	Optimal pH	Use Level*	RCI	
Chemoxide™ CAW surfactant	Cocamidopropyl-amine Oxide	Coconut oil-derived liquid for mild, low irritation formulations. Great secondary surfactant with good formulation compatibility. Builds viscosity and boosts foam over a broad pH range.	Liquid (30%)	Nonionic	Self-preserved	x	> 4	5-15%	0.72	
Potassium Cocoate	Potassium Cocoate	Coconut oil-derived liquid that offers natural moisturization and excellent foaming capabilities in cleansing formulas.	Liquid (39%)	Anionic	Self-preserved	x	> 8.5	5-40%	1.00	 
Quickpearl™ EGL pearlizing agent	Glycol Distearate, Sodium Laureth Sulfate, Cocamidopropyl Betaine	Cold processable liquid concentrate that imparts a novel, white, opaque pearlescence aesthetic to cleansers while contributing to efficiency and energy savings in manufacturing.	Liquid (46%)	EGDS / Anionic / Amphoteric Blend	Methylisothiazolinone, Methylchloroisothiazolinone		5-8	1-5%	0.83	
Quickpearl™ PSB3 pearlizing agent	Glycol Distearate, Laureth-4, Cocamidopropyl Betaine	Imparts best-in-class pearlescence. Flowability allows for easy handling and easy dispersion in a cold process.	Liquid (42%)	EGDS / Nonionic / Amphoteric Blend	Sodium Benzoate	x	4.5-7.5	1-5%	0.72	
Schercoteric™ C-2 50LT surfactant	Disodium Cocoamphodiacetate	Mild, coconut-derived liquid offering superior flash foam, foam volume and foam sensory. Has the ability to reduce overall irritation when formulated with other surfactants.	Liquid (50%)	Amphoteric	Self-preserved	x	> 4	5-25%	0.71	
Sulfochem™ ALS-SB surfactant	Ammonium Lauryl Sulfate	Naturally derived, bio-based liquid that provides a dense, rich foam in lower pH cleansing products. Has a good viscosity response with the addition of alkanolamides.	Liquid (30.5%)	Anionic	Sodium Benzoate		4-7	5-40%	1.00	 
Sulfochem™ EA-1SB surfactant	Ammonium Laureth Sulfate (1 mole)	Produces high flash foam, low cloud point, and good viscosity response. Ideal for products where a low pH (>5) is essential and is very effective in acid-balanced cleansers.	Liquid (26.5%)	Anionic	Sodium Benzoate		5-7	5-40%	0.92	
Sulfochem™ EA-2SB surfactant	Ammonium Laureth Sulfate (2 mole)	Naturally derived, 2 mole liquid offering high foam in cleansers. Good for use in formulations where a low pH (>5) is desired.	Liquid (26.5%)	Anionic	Sodium Benzoate		5-7	5-40%	0.75	 
Sulfochem™ EA-703US surfactant	Ammonium Laureth Sulfate (3 mole)	Highly flowable and easy to use when an efficient surfactant is desired. Low color. An extremely low 1,4-dioxane version is also available.	Liquid (70%)	Anionic	Self-preserved		5-7	2-20%	0.66	
Sulfochem™ ES-2BZ surfactant	Sodium Laureth Sulfate (2 mole)	Exhibits superior flash foam and lather characteristics coupled with good skin compatibility. 1 and 3 mole versions also available.	Liquid (28%)	Anionic	Benzoic Acid		5-8	5-40%	0.75	
Sulfochem™ ES-2PSB surfactant	Sodium Laureth Sulfate (2 mole)	Generates excellent flash foam. Can create formulations with high viscosities and excellent foaming profiles. Low 1,4-dioxane.	Liquid (28%)	Anionic	Sodium Benzoate		5-8	5-55%	0.75	

SURFACTANTS	INCI	Features & Benefits	Product Form* (% TS/Active)	Surfactant Type	Preservative	Sulfate-free*	Optimal pH	Use Level*	RCI	
Sulfochem™ ES-56US surfactant	Sodium Laureth Sulfate (2 mole)	Unique product that offers the benefits of a typical high active sulfate without the usual dilution challenges.	Liquid (56%)	Anionic	Self-preserved		5-8	5-40%	0.75	
Sulfochem™ ES-70US surfactant	Sodium Laureth Sulfate (2 mole)	Excellent foamer. Highly flowable and easy to incorporate into formulations. Low odor. An extremely low 1,4-dioxane version is also available.	Liquid (71%)	Anionic	Self-preserved		5-8	5-40%	0.75	 
Sulfochem™ SLS-PHP surfactant	Sodium Lauryl Sulfate	Offers superior detergency and foaming characteristics. Generates copious, rich, dense foam volume. Low color, low odor, low salt.	Liquid (30%)	Anionic	High pH		5-8	5-55%	1.00	  

EMOLLIENTS	INCI	Features & Benefits	Product Form* (% TS/Active)	Foam Type	Optimal pH	Skin Sensory	Use Level*	RCI	
Hydramol™ PGPL ester	PEG/PPG-8/3 Laurate	Mitigates oiliness of oil systems and blooming effect in rinse-off due to water and oil solubility. Enables excellent clarity, easy rinse, and skin conditioning. Extremely mild.	Liquid (100%)	Minimal effect	5-9	Silky	1-10%	0.32	 
Hydramol™ TGL ester	Polyglyceryl-3 Laurate	Water dispersible humectant and emollient that enhances skin hydration while providing conditioning and moisturization.	Liquid (100%)	Minimal effect	5-9	Conditioning	1-10%	1.00	  
Schercemol™ DIS ester	Diisopropyl Sebacate	Helps reduce the greasiness associated with mineral oil, delivering a velvety soft, moisturized skin feel. Enhances foam appearance, stability and creaminess. Can be incorporated into clear systems.	Liquid (100%)	Improved creaminess, flash foam, and foam density	5-9	Smooth and soft	1-5%	0.63	
Schercemol™ LL ester	Lauryl Lactate	Delivers a light, velvety skin feel. Can work in synergy with other rheology modifiers to increase viscosity. Water dispersible. Can be incorporated into clear systems.	Liquid (100%)	Highest creaminess, improved flash foam and foam density	5.5-8	Smooth and soft	1-15%	1.00	



HAIR FUNCTIONAL INGREDIENTS

The LLS hair care portfolio contains a wide array of specialty surfactants, conditioning polymers, rheology modifiers and hair fixatives that enable you to create the next generation of shampoo, conditioner, styling and hair coloration products that offer aesthetic, superior performance and improved sensorial hair benefits.

HAIR CARE
INGREDIENTS SUMMARY

RHEOLOGY MODIFIERS

	Thickener	Suspending Agent	Hair Conditioning	Emollient	Humectant	Emulsifier	Film Former	Combing/ Detangling	Protection/ Cuticle Repair	Scalp Care	Sulfate-free*	Conditioner	Shampoo	Coloration	Relaxer	Styling	Treatment
	Functions							Additional Benefits				Applications					
Arbalon™ R-50 cellulose liquid*		●									●		●				
Carbopol® 980 polymer	●	●									●		●			●	
Carbopol® Aqua CC polymer	●	●	●									●	●	●			●
Carbopol® Aqua SF-1 polymer	●	●											●				
Carbopol® Aqua SF-2 polymer	●	●											●				
Carbopol® Clear polymer	●	●									●					●	
Carbopol® Silk 100 polymer	●	●									●		●				
Carbopol® Smart 3000 polymer	●	●										●	●	●			
Carbopol® Style 2.0 polymer	●	●					●				●					●	
Carbopol® Ultrez 20 polymer	●	●									●	●	●	●		●	
Carbopol® Ultrez 21 polymer	●	●									●					●	
Chromapol™ 5 polymer	●													●			
Glucamate™ CCO thickener	●					●					●	●	●	●			
Glucamate™ DOE-120 thickener	●					●					●		●				
Glucamate™ LT thickener	●					●					●		●				
Glucamate™ VLT thickener	●					●					●		●				
Kelco-Care™ diutan gum*	●	●	●				●	●	●		●	●		●		●	●
Novethix™ L-10 polymer	●					●							●			●	
Oilkemia™ 5S polymer	●	●									●	●				●	●

EMULSIFIERS

Glucamate™ SSE-20 emulsifier						●					●	●				●	
Glucate™ SS emulsifier						●					●	●				●	
Pemulen™ EZ-4U polymeric emulsifier						●					●					●	
Promulgen™ D nonionic emulsifier						●					●	●				●	

*Arbalon™ cellulose liquid products are manufactured by CP Kelco U.S., Inc. Arbalon™ is a trademark of CP Kelco and is used by Lubrizol under license. Lubrizol has a global agreement with CP Kelco for this product in the beauty and personal care market.
*Kelco-Care™ diutan gum products are manufactured by CP Kelco U.S., INC. Kelco-Care™ is a trademark of CP Kelco and is used under license.

*Sulfate-Free No known alkyl or alkyl ether sulfate content

SURFACTANTS

	Thickener	Suspending Agent	Hair Conditioning	Emollient	Humectant	Emulsifier	Film Former	Combing / Detangling	Protection/ Cuticle Repair	Scalp Care	Sulfate-free*	Conditioner	Shampoo	Coloration	Relaxer	Styling	Treatment
	Functions							Additional Benefits			Applications						
Amidex™ LIPA surfactant	●										●		●				
Chembetaine™ ACB surfactant											●	●	●				
Chembetaine™ CAD surfactant											●	●	●				
Chembetaine™ CAS surfactant											●		●				
Chembetaine™ C-PHP surfactant											●	●	●				
Chembetaine™ LEC surfactant											●		●				
Chembetaine™ OL-30 surfactant				●							●	●	●				
Chembetaine™ SB surfactant											●		●				
Chemccinate™ DSLS-BA surfactant											●		●				
Chemory™ SFB-10SSB surfactant											●		●				
Chemory™ SFB-4SB surfactant											●		●				
Chemoxide™ CAW surfactant											●	●	●				
QuickPearl™ PSB3 pearlizing agent											●		●				
Sulfochem™ ALS-SB surfactant													●				
Sulfochem™ ES-2PSB surfactant													●				
Sulfochem™ SLS-PHP surfactant													●				

CONDITIONING
POLYMERS

Merquat™ 100 polymer			●					●	●		●	●	●	●	●		●
Merquat™ 280NP polymer			●					●			●	●	●	●	●		●
Merquat™ 295 polymer			●					●	●		●	●	●	●	●		●
Merquat™ 2001 polymer			●					●	●		●	●	●			●	●
Merquat™ 2003PR polymer			●					●	●		●	●	●	●			●
Merquat™ 3330PR polymer			●					●	●		●		●			●	

CONDITIONING
POLYMERS

	Thickener	Suspending Agent	Hair Conditioning	Emollient	Humectant	Emulsifier	Film Former	Combing / Detangling	Protection/ Cuticle Repair	Scalp Care	Sulfate-free*	Conditioner	Shampoo	Coloration	Relaxer	Styling	Treatment
	Functions							Additional Benefits			Applications						
Merquat™ 3940 polymer			●					●			●		●			●	
Sensomer™ 10M polymer			●					●			●	●	●			●	
Sensomer™ CI-50 polymer			●					●			●	●	●				

CONDITIONERS

Chemidex™ S surfactant			●					●			●	●	●	●			
Quatrex™ S conditioning agent			●					●			●	●	●	●		●	
Schercodine™ C amido-amine			●					●			●	●	●	●			
Schercoquat™ IAS-PG quaternary compound			●					●			●	●	●			●	
SilSense® A-21 silicone			●					●			●	●	●			●	

EMOLLIENTS

AlgaPür™ HSHO algae oil*			●	●				●	●	●	●	●	●	●		●	●
Hydramol™ PGDS ester	●		●	●	●						●	●	●				
Hydramol™ TGL ester			●	●	●			●			●	●	●				
Schercemol™ LL ester				●							●	●	●				
Schercemol™ NGDO ester				●							●	●	●			●	●
Schercemol™ SHS ester				●							●	●	●			●	

HUMECTANTS

Glucam™ E-20 humectant				●	●						●	●	●			●	
Glucam™ P-20 humectant				●	●						●	●	●			●	
Glucquat™ 125 humectant			●		●			●			●	●	●			●	

*AlgaPür™ is a registered trademark of Corbion. Lubrizol has a global agreement with Corbion for this product in the beauty and personal care market.

*Sulfate-Free No known alkyl or alkyl ether sulfate content

HAIR FIXATIVES

	Thickener	Suspending Agent	Hair Conditioning	Emollient	Humectant	Emulsifier	Film Former	Combing / Detangling	Protection/ Cuticle Repair	Scalp Care	Sulfate-free*	Conditioner	Shampoo	Coloration	Relaxer	Styling	Treatment
	Functions							Additional Benefits				Applications					
Fixate™ Design polymer							●									●	
Fixate™ Freestyle polymer	●	●					●		●							●	
Fixate™ G-100 PR polymer							●		●		●					●	
Fixate™ Plus polymer	●	●					●									●	
Fixate™ Superhold polymer	●						●		●							●	










UV PROTECTION

Solamer™ GR-8 polymer									●		●	●	●			●	●
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DEMINERALIZING AGENT

CG4500 polymer									●		●	●	●	●	●	●	●
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CONDITIONING POLYMERS

	INCI	Features & Benefits	Product Form* (% TS/Active)	Optimal pH	Hair Sensory	Use Level*	RCI	
Merquat™ 100 polymer	Polyquaternium-6	Highly charged, non-preserved cationic homopolymer. Helps protect color intensity and brightness in addition to improving wet combing, detangling, wet slip and frizz reduction.	Liquid (40%)	3-11	Wet combing and detangling	0.75-3%	0	
Merquat™ 280NP polymer	Polyquaternium-22	Non-preserved, ampholytic copolymer. Outstanding stability in extreme pH applications. Ideally suited for use in high pH products as well as shampoos.	Liquid (41%)	3-12	Wet combing and detangling	1-3%	0	
Merquat™ 295 polymer	Polyquaternium-22	Highly charged, non-preserved, ampholytic copolymer. Preserves true color, brightness and intensity. Retains hair strength after multiple flat iron treatments. Exceptional slip, wet combing and detangling and silky dry feel. Excellent stability in extreme pH applications.	Liquid (20%)	3-11	Wet combing and detangling	0.3-3%	0	
Merquat™ 2001 polymer	Polyquaternium-47	Proprietary ampholytic, paraben-free terpolymer. Designed for superior wet hair combing, detangling and dry softness. Protects hair against ultra high temperatures. Provides frizz reduction and hair alignment. Retains color tonality and intensity through multiple washes.	Liquid (21%)	3.5-8	Dry combing, softness and smoothness	1-3%	0	
Merquat™ 2003PR polymer	Polyquaternium-53	Proprietary ampholytic, paraben-free terpolymer. Protects color tones, warmth and intensity on multiple washings. Shields against ultra high temperatures. Provides wet detangling, dry softness, smoothness and a silicone like feel. Maintains style while reducing frizz.	Liquid (21%)	3.5-8	Wet combing, suppleness Dry softness, smoothness	1-3%	0	
Merquat™ 3330PR polymer	Polyquaternium-39	Non paraben, ampholytic terpolymer compatible with anionic and amphoteric surfactants. Reduces hair breakage at high temperatures, improves wet feel and dry compatibility, provides a silky dry feel, helps hold curls without flaking and adds mildness to surfactant systems.	Liquid (10.9%)	3.5-9	Dry feel and dry combing	1-5%	0	
Merquat™ 3940 polymer	Polyquaternium-39	High solids, non-paraben, ampholytic terpolymer, compatible with anionic and amphoteric surfactants. Provides excellent wet and dry combing properties, boosts foam and improves creaminess of lather.	Liquid (43%)	3-9	Wet combing, mildness	2-5%	0	
Sensomer™ 10M polymer	Polyquaternium-10	High molecular weight Polyquaternium-10, improves clarity and compatibility. Optimized to work in combination with Merquat™ conditioning polymers.	Powder	3-10	Wet combing and detangling, wet feel	0.1-1%	0.65	
Sensomer™ CI-50 polymer	Starch Hydroxy-propyltrimonium Chloride	Naturally derived, high molecular weight polysaccharide for effective frizz control to leave hair looking smooth and silky. Enhances hair wet and dry combing performance. Generates clean and fresh wet sensory.	Liquid (32%)	4-8	Fresh wet feel, dry smoothness	1-4%	0.92	



HALAL
Raw material certified to meet Halal requirements by a recognized certification agent.

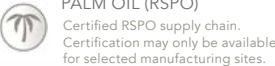
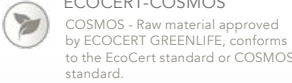
*Product Form at 25degC
*Use Level wt% as supplied
*Sulfate-Free No known alkyl or alkyl ether sulfate content

SURFACTANTS	INCI	Features & Benefits	Product Form* (% TS/Active)	Surfactant Type	Preservative	Sulfate-free*	Optimal pH	Use Level*	RCI	
Amidex™ LIPA surfactant	Lauramide MIPA	Naturally derived alkanolamide, viscosity builder that is an excellent secondary surfactant for rich, luxurious lather. Can replace DEA and MEA amides at a 75% use level.	Flake	Alkanolamide	Self-preserved	x	5-8	0.5-3%	0.80	
Chembetaine™ ACB surfactant	Coco-Betaine	Coconut-derived, viscosity builder and foam booster. Reduces irritation when formulated with anionic surfactants.	Liquid (43%)	Amphoteric	Self-preserved	x	3-12	5-10%	0.75	
Chembetaine™ CAD surfactant	Cocamidopropyl Betaine	High purity, low color and odor. Excellent foam and viscosity building characteristics. Made from stripped fatty acid which provides exceptional clarity and stability. Other versions available (Chembetaine™ CGF surfactant).	Liquid (35%)	Amphoteric	Self-preserved	x	3-12	3-12%	0.63	
Chembetaine™ CAS surfactant	Cocamidopropyl Hydroxysultaine	Coconut derived. Excellent detergent, provides mildness in combination with anionics. Exceptional foaming over a wide pH and water hardness range. High purity version Chembetaine™ SB surfactant.	Liquid (50%)	Amphoteric	Self-preserved	x	3-12	3-5%	0.62	
Chembetaine™ C-PHP surfactant	Cocamidopropyl Betaine	Cost effective, coconut oil-derived. Exhibits excellent foam and viscosity building characteristics. Improves overall formulation mildness.	Liquid (35%)	Amphoteric	pH preserved	x	3-12	3-12%	0.65	
Chembetaine™ LEC surfactant	Lauramidopropyl Betaine	High purity, low color and low odor. Exhibits excellent foam and viscosity building characteristics. Synergistically exhibits mildness.	Liquid (35%)	Amphoteric	Self-preserved	x	3-12	3-12%	0.63	
Chembetaine™ OL-30 surfactant	Oleyl Betaine	Naturally derived, mild emollient conditioning surfactant in an easy-to-handle liquid form. Adds conditioning properties to shampoos.	Liquid (32%)	Amphoteric	Self-preserved	x	3-12	3-12%	0.79	
Chembetaine™ SB surfactant	Cocamidopropyl Hydroxysultaine	Coconut derived. Excellent detergent, provides mildness in combination with anionics. Exceptional foaming over a wide pH and water hardness range. High purity, low odor, low color, good electrolyte tolerance.	Liquid (50%)	Amphoteric	Self-preserved	x	3-12	3-5%	0.60	
Chemccinate™ DSLS-BA surfactant	Disodium Laureth Sulfosuccinate	Naturally derived. Excellent choice to provide effective, yet mild, cleansing and gentle foaming in color protection shampoos, baby shampoos, and sulfate-free* shampoos.	Liquid (39%)	Anionic Sulfosuccinate	Benzoic Acid	x	5-7	5-35%	0.59	
Chemoryl™ SFB-10SSB surfactant	Disodium Laureth Sulfosuccinate, Sodium Cocoyl Isethionate, Cocamidopropyl Betaine	Mild easy-to-use surfactant blend. Alkyl and alkyl ether sulfate free, amide-free. Excellent choice to provide very gentle cleansing in sulfate-free* and color protection shampoos.	Liquid (32%)	Sulfate-free Blend	Sodium Benzoate	x	5-7	25-60%	0.62	
Chemoryl™ SFB-4SB surfactant	Disodium Laureth Sulfosuccinate, Cocamidopropyl Betaine, Sodium Cocoyl Isethionate, Sodium Lauroyl Sarcosinate	Robust mild easy-to-use surfactant blend. Alkyl and alkyl ether sulfate free, amide-free. Provides very gentle cleansing and good foam in baby, color protection and sulfate-free* shampoos.	Liquid (33%)	Sulfate-free Blend	Sodium Benzoate	x	5-7	25-55%	0.68	
Chemoxide™ CAW surfactant	Cocamidopropyl-amine Oxide	Coconut oil-derived amine oxide. Excellent choice for use in mild, low irritation formulations. Builds viscosity and boosts foam over a broad pH range.	Liquid (30%)	Amine Oxide	Self-preserved	x	4-12	5-15%	0.72	
QuickPearl™ PSB3 pearlizing agent	Glycol Distearate, Laureth-4, Cocamidopropyl Betaine	Liquid pearlescent blend. Imparts best-in-class pearl effects, providing flexibility when formulating. Flowability allows for easy handling and easy dispersion in a cold process.	Liquid (42%)	Pearlizing Agent	Sodium Benzoate	x	4.5-7.5	1-5%	0.72	

SURFACTANTS	INCI	Features & Benefits	Product Form* (% TS/Active)	Surfactant Type	Preservative	Sulfate-free*	Optimal pH	Use Level*	RCI	
Sulfochem™ ALS-SB surfactant	Ammonium Lauryl Sulfate	Naturally derived, bio based primary anionic surfactant. Provides excellent clarity and dense, rich foam when formulating lower pH shampoos.	Liquid (30.5%)	Anionic Alkyl Sulfate	Sodium Benzoate		4.5-8	10-40%	1.00	
Sulfochem™ ES-2PSB surfactant	Sodium Laureth Sulfate	2 mole naturally derived, low 1,4 dioxane SLES surfactant for high-end cleansing products. Recommended for use in products where high foam is desired. High active version available.	Liquid (28%)	Anionic Alkyl Ether Sulfate	Sodium Benzoate		4.5-8	5-55%	0.75	
Sulfochem™ SLS-PHP surfactant	Sodium Lauryl Sulfate	Naturally derived primary anionic surfactant. Excellent detergency and foam. Low color, odor and salt. Ideal for clear or pearlescent shampoos when copious, rich, dense foam is desired.	Liquid (30%)	Anionic Alkyl Sulfate	pH preserved		4.5-8	5-55%	1.00	

RHEOLOGY MODIFIERS

	INCI	Features & Benefits	Product Form* (% TS/Active)	Flow Characteristics	Suspension	Ease of Dispersion	Sulfate-free Compatibility	Optimal pH	Use Level*	RCI	
Arbalon™ R-50 cellulose liquid*	Glycerin, Cellulose, Cellulose Gum	Naturally derived cellulosic structurant for efficient suspension and stabilization in shampoos. Works synergistically with other thickeners. Improves wet combing and detangling. Preserved with sodium benzoate and benzoic acid.	Liquid (12%)	Long				4-12	2-10%	0.99	
Carbopol® 980 polymer	Carbomer	Crosslinked polyacrylic acid polymer that provides high viscosity and good clarity. Forms sparkling clear gels and stabilizes emulsions.	Powder	Short			-	4.5-8	0.2-1%	0	
Carbopol® Aqua CC polymer	Polyacrylate-1 Crosspolymer	Cationic liquid rheology modifier, provides thickening and stability for conditioners and high clarity for low pH applications. Thickens low pH amphoteric shampoo formulations. Preserved with benzalkonium chloride.	Liquid (20%)	Medium				3-5.5	1-10%	0	-
Carbopol® Aqua SF-1 polymer	Acrylates Copolymer	Lightly cross-linked acrylic rheology modifier. Suspends, stabilizes, thickens, provides elegant flow and enhances pearlescent appearance. Exceptional clarity around neutral pH. Ideal for shampoos >10% actives. Self-preserved.	Liquid (30%)	Long				4-8	3-10%	0	
Carbopol® Aqua SF-2 polymer	Acrylates Crosspolymer-4	Lightly cross-linked acrylic rheology modifier. High clarity at lower pH (4-6) in shampoos. Suspends, stabilizes, thickens, provides elegant flow and enhances pearlescent appearance. Self-preserved.	Liquid (32%)	Long				4-6	3-10%	0	
Carbopol® Clear polymer	Carbomer	Efficient crosslinked polyacrylic acid polymer, disperses rapidly, is very efficient and excellent clarity. Enables distinctive hair styling textures, clear gels, creams, and waxes by varying polymer concentration.	Powder	Short			-	4-11	0.5-2%	0	



Low Medium High

*Sulfate-Free No known alkyl or alkyl ether sulfate content
*Use Level wt% as supplied
*Product Form at 25degC

*Arbalon™ cellulose liquid products are manufactured by CP Kelco U.S., Inc. Arbalon™ is a trademark of CP Kelco and is used by Lubrizol under license. Lubrizol has a global agreement with CP Kelco for this product in the beauty and personal care market.

RHEOLOGY MODIFIERS	INCI	Features & Benefits	Product Form* (% TS/Active)	Flow Characteristics	Suspension	Ease of Dispersion	Sulfate-free Compatibility	Optimal pH	Use Level*	RCI	
Carbopol® Silk 100 polymer	Carbomer	Crosslinked polyacrylic acid polymer that enables coacervation, aiding in silicone deposition in 2-in-1 shampoos. At low concentrations, provides excellent flow and exhibits synergistic behavior with salt.	Powder	Short	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	-	4-6	0.2-0.6%	0	<div><div></div><div></div></div>
Carbopol® Smart 3000 polymer	Acrylates / Beheneth-25 Methacrylate / HEMA Crosspolymer-2	Nonionic rheology modifier for shampoos. Simple-to-process, does not require neutralization, provides excellent clarity and suspension capabilities across a broad pH range. Preserved with benzyl alcohol and dehydroacetic acid.	Liquid (25%)	Long	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	3-7	1-15%	0	-
Carbopol® Style 2.0 polymer	Carbomer	Crosslinked polyacrylic acid polymer with style boosting properties. Disperses rapidly, excellent clarity, and smooth texture at high use levels ideal for hair gels. Broad compatibility with fixatives and pigments.	Powder	Short	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	-	4.5-7.5	0.5-2%	0	<div><div></div><div></div></div>
Carbopol® Ultrez 20 polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Hydrophobically modified copolymer with self-wetting properties. Provides electrolyte tolerance and unique sensory benefits in gels and emulsions. Ideal rheology modifier for thickening low-moderate surfactant level shampoos and non-sulfate systems.	Powder	Medium	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	4.5-7.5	0.6-1%	0	<div><div></div><div></div></div>
Carbopol® Ultrez 21 polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Hydrophobically modified copolymer with self-wetting properties. Provides electrolyte tolerance and unique sensory benefits in gels and emulsions. Efficient rheology modifier in hair gels, excellent compatibility with hair fixatives.	Powder	Short	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	-	4.5-7.5	0.2-1%	0	<div><div></div><div></div></div>
Chromapol™ 5 polymer	Acrylates/ Beheneth-25 Methacrylate Copolymer	Efficient hydrophobically-modified ASE polymer. Provides enhanced viscosity and emulsion stability to hair color systems, an elegant smooth flow, a non-drip shear-thinning rheology and high clarity gels. Ability to form emulsifier free systems with sustainability benefits. Self-preserved.	Liquid (30%)	Short	-	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	6.5-11	0.5-6%	0	<div><div></div><div></div></div>
Glucamate™ CCO thickener	Methyl Glucose Caprate/Caprylate/Oleate, Propanediol	Naturally derived, non-ethoxylated associative liquid thickener for mild anionic, amphoteric and non-sulfate systems. Provides good clarity, mildness and honey-like flow. Contributes to luxurious sensory properties. Self-preserved.	Liquid (80%)	Long	-	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	5.5-8	0.5-3%	0.96	-
Glucamate™ DOE-120 thickener	PEG-120 Methyl Glucose Dioleate	Naturally derived, methyl glucose ether. Efficient nonionic associative thickener for shampoos. Provides excellent clarity and enhances mildness of formulations. Ideal for non-sulfate shampoos. 70% syrup version available.	Flake	Long	-	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	5.5-8	0.5-3%	0.15	<div><div></div><div></div><div></div></div>
Glucamate™ LT thickener	PEG-120 Methyl Glucose Trioleate, Propylene Glycol, Water	Naturally derived, methyl glucose ether. Efficient nonionic associative thickener for shampoos in easy-to-use liquid form. Provides excellent clarity and enhances mildness of formulations. Ideal for non-sulfate shampoos. Self-preserved.	Liquid (40%)	Long	-	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	5.5-8	1-5%	0.10	<div><div></div><div></div></div>
Glucamate™ VLT thickener	PEG-120 Methyl Glucose Trioleate, Propanediol	Naturally derived, methyl glucose ether. Efficient nonionic associative thickener for shampoos. Provides excellent clarity and enhances mildness of formulations. Ideal for non-sulfate shampoos. Self-preserved.	Liquid (70%)	Long	-	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	5.5-8	0.5-5%	0.30	<div><div></div><div></div></div>

RHEOLOGY MODIFIERS	INCI	Features & Benefits	Product Form* (% TS/Active)	Flow Characteristics	Suspension	Ease of Dispersion	Sulfate-free Compatibility	Optimal pH	Use Level*	RCI	
Kelco-Care™ diutan gum*	Sphingomonas Ferment Extract	Naturally derived rheology modifier with thickening and suspending capabilities that can impart protection and repair benefits, even at low use levels. Also has film forming capabilities with excellent conditioning benefits and a no-drip rheology for hair color.	Powder	Long	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	-	3-12	0.1-2%	0.95	<div><div></div><div></div></div>
Novethix™ L-10 polymer	Acrylates/ Beheneth-25 Methacrylate Copolymer	Very efficient, hydrophobically modified alkali-swellable emulsion polymer. Easy-to-use liquid structures most shampoo formulas. Thickens difficult-to-thicken mild formulations and non-sulfate shampoo formulas. Sprayable gels, synergistic with electrolytes. Self-preserved.	Liquid (30%)	Long-Short	-	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	6-8	1.5-8%	0	<div><div></div><div></div></div>
Oilkemia™ 5S polymer	Caprylic/Capric Triglyceride, Polyurethane-79	Rheology modifier for thickening oils. Provides excellent thickening efficiency, clarity, suspension and stability in oil-based systems, together with a pleasant non-tacky feel. Builds formulations that have exceptional suspension power.	Granules	Short-Medium	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	-	-	1-6%	0.73	-

CONDITIONERS	INCI	Features & Benefits	Product Form* (% TS/Active)	Optimal pH	Hair Sensory	Use Level*	RCI	
Chemidex™ S surfactant	Stearamidopropyl Dimethylamine	Naturally derived cationic surfactant and emulsifier. Substantive to hair, provides a beautiful wet feel and helps in ease of combing and detangling. Recommended over cationics to reduce irritation.	Solid	3.5-5	Wet detangling and slip	1-5%	0.78	<div><div></div><div></div></div>
Quatrex™ S conditioning agent	Soyamidopropalkonium Chloride	Naturally derived, water soluble, cationic surfactant exhibiting excellent substantivity and conditioning properties. Compatible with anionics, excellent substantivity, conditioning and soft feel.	Liquid (28%)	4.5-7.5	Wet combing and dry feel	0.5-4%	0.60	<div><div></div><div></div></div>
Schercodine™ C amido-amine	Cocamidopropyl Dimethylamine	Naturally derived, water soluble, liquid tertiary amine cationic surfactant used to replace quaternary cationic surfactants in rinse-off conditioners. Provides excellent wet combing and wet sensory.	Liquid (98%)	3.5-5	Soft and supple feel	0.5-4%	0.71	<div><div></div><div></div></div>
Schercoquat™ IAS-PG quaternary compound	Isostearamidopropyl Ethyldimonium Ethosulfate, Propylene Glycol	Naturally derived, water soluble, liquid quaternary of an isostearic substituted amidoamine. Extremely effective conditioner, especially in clear hair rinses provides static reduction. Enhanced substantivity and improved water solubility.	Liquid (90%)	3-8	Anti-static agent	0.2-1%	0.60	-
SilSense® A-21 silicone	PEG-7 Amodimethicone	Water dispersible, amino functional cationic silicone that helps in forming ionic bonds with keratinaceous substrates. Can be formulated into clear aqueous systems without adversely impacting clarity.	Liquid (100%)	3-10	Soft dry feel	0.5-4%	0	<div><div></div><div></div></div>

DEMINERALIZING AGENT	INCI	Features & Benefits	Product Form* (% TS/Active)	Optimal pH	Hair Sensory	Use Level*	RCI	
CG4500 polymer	Acrylic Acid / Acrylamidomethyl Propane Sulfonic Acid Copolymer	Provides strengthening to hair in high pH relaxer systems and lighteners. Helps to lift and remove hard water minerals and heavy metal salts, including iron and copper salts.	Liquid (55%)	3.5-12	Light conditioned feel	1-5%	0	<div><div></div><div></div></div>



CHINA COMPLIANT

HALAL
Raw material certified to meet Halal requirements by a recognized certification agent.

ECOCERT-COSMOS
COSMOS - Raw material approved by ECOCERT GREENLIFE, conforms to the EcoCert standard or COSMOS standard.











PALM OIL (RSPO)
Certified RSPO supply chain. Certification may only be available for selected manufacturing sites.










Low

Medium

High



*Kelco-Care™ diutan gum products are manufactured by CP Kelco U.S., INC. Kelco-Care™ is a trademark of CP Kelco and is used under license.






EMULSIFIERS	INCI	Features & Benefits	Product Form* (% TS/Active)	Emulsifier Type	HLB	Optimal pH	Hair Sensory	Use Level*	RCI	
Glucamate™ SSE-20 polymer	PEG-20 Methyl Glucose Sesquistearate	Naturally derived O/W nonionic emulsifier, can be used alone or in combination with Glucate™ SS emulsifier, offering safety and performance advantages. Very low eye irritation score.	Paste	O/W	15	4.5-8	Soft	0.3-1.5%	0.41	 
Glucate™ SS emulsifier	Methyl Glucose Sesquistearate	Naturally derived W/O nonionic emulsifier, can be used alone or in combination with Glucamate™ SSE-20 emulsifier, forming a offering safety and performance advantages. Very low eye irritation score.	Flake	W/O	6	4.5-8	Soft	0.3-1.5%	0.97	  
Pemulen™ EZ-4U polymeric emulsifier	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Very easy-to-disperse polymeric emulsifer with excellent aesthetics and smooth glossy appearance. Forms low viscosity emulsions that are sprayable. Viscosity can be enhanced with Carbopol® polymers. Other Pemulen™ polymers available.	Powder	Polymeric	-	4-11	Light	0.05-0.5%	0	 
Promulgen™ D nonionic emulsifier	Cetearyl Alcohol, Cetareth 20	Vegetable-based nonionic emulsifier with great pH stability. Has viscosity-building properties.	Flake	O/W	-	4.5-8	Heavy	0.3-1.5%	0.81	  

EMOLLIENTS	INCI	Features & Benefits	Product Form* (% TS/Active)	Optimal pH	Hair Sensory	Use Level*	RCI	
AlgaPür™ HSHO algae oil*	Triolein	Highly stable bio-based oil containing over 90% of beneficial Omega-9 (oleic acid in the form of a triglyceride) that helps protect and strengthen the fiber, provides shine to the hair while hydrating and keeping the scalp young for holistic hair care.	Liquid (100%)	3-12	Silky, non-greasy feel	Water-based systems: 0.5-10 wt% Anhydrous systems: 5-40 wt%	1.00	
Hydramol™ PGDS ester	PEG-90 Diisosteate	Water-dispersible emollient and viscosity builder for shampoo systems. Alkanolamide replacement. Provides conditioning and lather enhancement.	Paste	5-9	Light emollient	1-10%	0.17	
Hydramol™ TGL ester	Polyglyceryl-3 Laurate	Naturally derived, water-dispersible humectant and emollient for personal cleansing systems.	Liquid (100%)	5-9	Soft emollient feel, humectancy	1-10%	1.00	  
Schercemol™ LL ester	Lauryl Lactate	Naturally derived, water dispersible and alcohol soluble, medium ester. Yields a light, velvety emolliency. Viscosity builder in shampoo formulations.	Liquid (100%)	5-9	Slip, spreadability	1-5%	1.00	
Schercemol™ NGDO ester	Neopentyl Glycol Diethylhexanoate	Naturally derived, light emollient ester for slip, absorbency, and spreadability. May be used as a refreshing, non-volatile alternative to cyclomethicone.	Liquid (100%)	5-9	Silk feel, mitigates oiliness	1-5%	0	
Schercemol™ SHS ester	Isostearyl Hydroxystearate	Naturally derived, medium emollient ester with excellent spreading properties. Provides dry slip and moisturization in hair pomades and conditioners. Good viscosity builder, anti-tack and anti-grease agent.	Solid	5-9	Buttery feel, medium emollient	1-8%	1.00	 

*AlgaPür™ is a registered trademark of Corbion. Lubrizol has a global agreement with Corbion for this product in the beauty and personal care market.

UV PROTECTION	INCI	Features & Benefits	Product Form* (% TS/Active)	Optimal pH	Hair Sensory	Use Level*	RCI	
Solamer™ GR-8 polymer	Polyamide-2	Provides broad spectrum UV protection in leave-in and rinse-off hair care applications. Compatible with a wide range of surfactants.	Liquid (70%)	4-11	Light conditioned feel	0.25-3%	0	–

HAIR FIXATIVES	INCI	Features & Benefits	Product Form* (% TS/Active)	Hold / Humidity Resistance	Viscosity in Application	Optimal pH	Application	Hair Sensory	Use Level*	RCI	
Fixate™ Design polymer	Polyacrylate-32	Liquid latex emulsion polymer. Enhances volume and customizable soft-to-stiff hold to aerosol mousse and nonaerosol hair formulations. Customizable soft-to-stiff hold for various product formats. Self-preserved.	Liquid (33%)	Very High	Low / Sprayable	6.0-7.5	Styling (mousse, pump sprays)	Dial-In (Soft-Stiff)	1-6%	0	–
Fixate™ Freestyle polymer	Acrylates Crosspolymer-3	Liquid latex emulsion polymer. Offers tailored stiffness from normal to ultra high. Excellent humidity resistance, clarity, superior gel aesthetics and shine. Suitable for medium to high viscosity applications. Anti-pollution properties. Self-preserved.	Liquid (31%)	Very High	High	5.0-7.5	Styling (clear gels)	Ultra Stiff	3-15%	0	–
Fixate™ G-100 PR polymer	AMP-Acrylates/ Allyl Methacrylate Copolymer	Pre-neutralized water-dispersible fixative polymer. Delivers soft, touchable hold and curl retention to medium to low viscosity hair styling formulations. Anti-pollution properties. Preserved with phenoxyethanol.	Liquid (26%)	Low-High	Low / Sprayable	5.0-7.5	Styling (broad range, pump sprays and other low viscosity products)	Soft / Flexible	1.5-8%	0	
Fixate™ Plus polymer	Polyacrylate-14	Liquid latex emulsion polymer with film forming and rheology benefits. Provides unique texture. Suitable for medium to high viscosity applications. Self-preserved.	Liquid (30%)	High	Very High	5.0-7.5	Styling (clear gels, unique rheology)	Soft / Flexible	1.5-3%	0	–
Fixate™ Superhold polymer	Polyacrylate-2 Crosspolymer	Liquid latex emulsion polymer. Optimal balance of humidity resistance and style hold without stickiness and build up. Provides shine and wet look. Anti-pollution properties. Self-preserved.	Liquid (30%)	Medium-High	Medium-High	5.0-7.5	Styling (clear gels)	Stiff / Hard	3-12%	0	

HUMECTANTS	INCI	Features & Benefits	Product Form* (% TS/Active)	Optimal pH	Hair Sensory	Use Level*	RCI	
Glucam™ E-20 humectant	Methyl Gluceth-20	Multi-functional, mild ingredient that delivers a light, satin-like emollient feel in moisturizing systems.	Liquid (100%)	5-9	Light smooth feel	1-5%	0.13	 
Glucam™ P-20 humectant	PPG-20 Methyl Glucose Ether	Delivers a lubricious, emollient feel. Miscible with water, alcohols, organic esters, and oils. In fragrance containing formulations, acts as a fixative by subduing volatilization of the “high notes”.	Liquid (100%)	5-9	Effective moisturization without heavy feel	1-5%	0.09	 
Glucquat™ 125 humectant	Lauryl Methyl Gluceth-10 Hydroxypropyldimonium Chloride	Mild cationic humectant, effective alternative to other harsh monomeric quats. Provides moisturization, substantive conditioning properties. Compatible with a wide range of material.	Liquid (25%)	4-7.5	Wet combing and dry suppleness with moisturization	0.5-3%	0.30	



*Product Form at 25degC
*Use Level wt% as supplied



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