

PRODUCT CATEGORY	FEATURES	BENEFITS	APPLICATIONS	PRODUCTS	DESCRIPTION	INCI/CTFA NAME
Rheology Modifier (HASE Polymer)	<ul style="list-style-type: none"> <li>• Liquid form</li> <li>• High surfactant Synergy</li> <li>• Emulsion &amp; Foam stabilizer</li> <li>• Broad pH range stability</li> <li>• Salt/Electrolyte tolerant</li> <li>• Instant thickening upon neutralization</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to handle</li> <li>• Non-Hygroscopic</li> <li>• Clear formulation possible</li> <li>• Cold-process possible</li> <li>• Thickens &amp; stabilizes Hydrogen Peroxide</li> <li>• Stable in pH 5.5 to 12</li> <li>• Stabilizes suspensions</li> <li>• Compatible with Anionic, Non-Ionic &amp; Zwitterionic surfactants</li> </ul>	Facial cleansers Liquid soaps Styling gels Creams Shampoos Depilatories Permanent curl activators and wave sets  <i>Typical use levels</i> 0.3% to 2.0% solids	Aculyn 22	Milky liquid Associative Rheology Modifier 30% Solids Anionic pH 2.7 Short, Non-stringy flow Thickens above pH 6.5	Acrylates/Steareth-20 Methacrylate Copolymer
Rheology Modifier (HASE Polymer)	<ul style="list-style-type: none"> <li>• Liquid form</li> <li>• High surfactant synergy</li> <li>• Emulsion &amp; Foam stabilizer</li> <li>• Broad pH range stability</li> <li>• Salt/Electrolyte tolerant</li> <li>• Instant thickening upon neutralization</li> <li>• Polar solvent compatible</li> <li>• Synergetic rheology with inorganic clay</li> <li>• Thixotropic</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to handle</li> <li>• Non-Hygroscopic</li> <li>• Clear formulation possible</li> <li>• Cold-process possible</li> <li>• Thickens &amp; Stabilizes Hydrogen peroxide</li> <li>• Stable in pH 5.5 to 12</li> <li>• Stabilizes suspensions</li> <li>• Compatible with Cationic, Anionic, Non-Ionic &amp; Zwitterionic surfactants</li> <li>• Stabilization of hydrophobic components</li> </ul>	Alcohol & glycol containing formulations Clear Shampoos Clear Shower Gels Two component hair dye systems (hair dye developers, perm neutralizers)  <i>Typical use levels</i> 0.2% to 1.5% solids	Aculyn 28	Milky liquid Associative Rheology modifier 20% Solids Anionic pH 3.0 Short, Non-stringy flow Thickens above pH 5.5	Acrylates/Beheneth-25 Methacrylate Copolymer
Rheology Modifier (ASE Polymer)	<ul style="list-style-type: none"> <li>• Liquid form</li> <li>• High surfactant synergy</li> <li>• Particulate Suspension</li> <li>• Stable in Highly Alkaline System</li> <li>• Broad pH range stability</li> <li>• Salt/Electrolyte tolerant</li> <li>• Instant thickening upon neutralization</li> <li>• Excellent viscosity stability</li> <li>• Polar solvent compatible</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to handle</li> <li>• Non-Hygroscopic</li> <li>• Clear formulation possible</li> <li>• Cold-process possible</li> <li>• Thickens &amp; Stabilizes Hydrogen peroxide</li> <li>• Stable in pH 6.0 to 12.5</li> <li>• Stabilizes suspensions</li> <li>• Compatible with Non-Ionic &amp; Anionic surfactants</li> <li>• Compatible with ZPTO</li> <li>• Less sensitive to water hardness</li> <li>• Permits stable formulations with particulates</li> </ul>	Two-Part Hair Dyes Depilatories Sunscreen lotions Anti-Dandruff Shampoos Alcohol based Hand Sanitizers Light foundations Lotions Make-up creams & Lotions  <i>Typical use levels</i> 0.5% to 3.0% Solids	Aculyn 33	Milky liquid Non-associative Rheology modifier 28% Solids Anionic pH 3.0 Short, Buttery flow Thickens above pH 6.0	Acrylates Copolymer
Rheology Modifier (ASE Polymer)	<ul style="list-style-type: none"> <li>• Liquid form</li> <li>• High surfactant synergy</li> <li>• Stable in Highly Alkaline System</li> <li>• Broad pH range stability</li> <li>• Salt/Electrolyte tolerant</li> <li>• Instant thickening upon neutralization</li> <li>• Polar solvent compatible</li> <li>• Emulsion &amp; Foam stabilizer</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to handle</li> <li>• Non-Hygroscopic</li> <li>• Clear formulation possible</li> <li>• Cold-process possible</li> <li>• Thickens &amp; Stabilizes Hydrogen peroxide</li> <li>• Stable in pH 6.0 to 12.5</li> <li>• Stabilizes suspensions</li> <li>• Compatible with Non-Ionic &amp; Anionic surfactants</li> <li>• Compatible with ZPTO</li> <li>• Less sensitive to water hardness</li> <li>• Permits stable formulations with particulates</li> </ul>	Two-Part hair dyes Liquid soaps Foundations Sunscreens Creams Lotions Anti-Dandruff shampoos Other products where thickening of Alcohols, Glycols & Glycerin is required  <i>Typical use levels</i> 0.5% to 3.0% Solids	Aculyn 38	Milky liquid Non-associative Rheology modifier 29% Solids Anionic pH 2.7 Short, Smooth flow Thickens above pH 6.0	Acrylates/Vinyl Neodecanoate Crosspolymer
Rheology Modifier (HEUR Polymer)	<ul style="list-style-type: none"> <li>• Liquid form</li> <li>• Acid compatibility</li> <li>• Broad compatibility</li> <li>• Stable pH/Viscosity response</li> <li>• Salt/Electrolyte tolerant</li> <li>• No Neutralization required</li> </ul>	<ul style="list-style-type: none"> <li>• Effective thickener of acid media</li> <li>• Non-Hygroscopic</li> <li>• Compatible with Non-Ionic, Cationic &amp; Non-ionic</li> <li>• Thickens &amp; Stabilizes Hydrogen peroxide</li> <li>• Cold-process possible</li> <li>• Non-Greasy &amp; Non-Sticky feel</li> <li>• Stable in pH 2.0 to 12.0</li> <li>• Reproducible viscosity</li> </ul>	Two-Part hair dyes Medicated creams with Benzoyl peroxide Peroxide based permanent wave neutralizers Hair styling aids such as waxes and pomades Hair Conditioners Sunscreens  <i>Typical use levels</i> 0.5% to 3.0% Solids	Aculyn 44	Hazy liquid Associative Rheology modifier 35% Solids Non-ionic pH 8 to 9 Stringy, Tacky flow	PEG-150/ Decyl Alcohol/SMDI Copolymer

Rheology Modifier (HEUR Polymer)	<ul style="list-style-type: none"> <li>•Liquid form</li> <li>•Acid compatibility</li> <li>•Broad compatibility</li> <li>•Microbe resistant</li> <li>•Salt/Electrolyte tolerant</li> <li>•Stable pH/Viscosity response</li> <li>•No Neutralization required</li> </ul>	<ul style="list-style-type: none"> <li>•Easy to handle</li> <li>•Effective thickener of acid media</li> <li>•Non-Hygroscopic</li> <li>•Compatible with Non-Ionic, Cationic, Non-ionic &amp; Zwitterionic surfactants</li> <li>•Clear formulation possible</li> <li>•Thickens &amp; Stabilizes Hydrogen peroxide</li> <li>•Cold-process possible</li> <li>•Stable in pH 2.0 to 12.0</li> <li>•Stabilizes suspensions</li> <li>•Reproducible viscosity</li> </ul>	<p>Two-Part hair dyes Medicated creams with Benzoyl peroxide Make up and Mascara Anti-ageing products with Alpha hydroxyl groups Hair conditioners Acidic Personal care products Products containing cationic systems</p> <p><i>Typical use levels</i> 0.5% to 3.0% Solids</p>	Aculyn 46	<p>Hazy liquid Associative Rheology modifier 19% Solids Non-ionic pH 6 to 8 Long, stringy flow</p>	PEG-150/ Stearyl Alcohol/SMDI Copolymer
Rheology Modifier (HNP Polymer)	<ul style="list-style-type: none"> <li>•Solid Flakes</li> <li>•Broad compatibility</li> <li>•Acid compatibility</li> <li>•Replacement for inorganic salts and fatty acid amides</li> <li>•Lipid nature</li> <li>•Water soluble</li> <li>•Glycol &amp; Surfactant soluble</li> </ul>	<ul style="list-style-type: none"> <li>•Easy to handle</li> <li>•No neutralization necessary</li> <li>•Non-Hygroscopic</li> <li>•Compatible with Cationic, Anionic, Non-Ionic &amp; Zwitterionic surfactants</li> <li>•Clear formulation possible</li> <li>•Non-irritating formulations possible</li> <li>•High surfactant formulations possible</li> <li>•Improves foam texture</li> <li>•Stable in pH 4.0 to 9.0</li> </ul>	<p>Shampoos Baby shampoos Intimate cleansing products Hospital cleansing products Bath and Shower products Body gel's Creams and Lotions Hand and Face washes</p> <p><i>Typical use levels</i> 0.3% to 2.0% Solids</p>	Aculyn 60	<p>Ivory white chips Associative Rheology modifier 100% solids Non-ionic pH 4.5 to 6.5 in 3% aqueous suspension Short, smooth flow Melting point 52-57° C</p>	PEG-150 Distearate
Rheology Modifier (HASE Polymer)	<ul style="list-style-type: none"> <li>•Liquid form</li> <li>•Broad compatibility</li> <li>•Efficient viscosity builder</li> <li>•Rheology modifier and film former</li> <li>•Shear thinning Rheology</li> <li>•Excellent surfactant and solvent compatibility</li> <li>•Polymeric emulsifier</li> </ul>	<ul style="list-style-type: none"> <li>•Easy to handle</li> <li>•Non-Hygroscopic</li> <li>•Compatible with Anionic, Non-Ionic &amp; Zwitterionic surfactants</li> <li>•Clear formulation possible</li> <li>•Cold-process possible</li> <li>•Gives Honey-smooth texture, spreading &amp; flow to formulations</li> <li>•Enables Suspension of particles, silicones, pearlizing agents, air bubbles etc possible</li> <li>•Film forming property</li> <li>•Stable in pH 4.0 to 12.0</li> </ul>	<p>Gels Facial Cleansers Liquid soaps Creams Lotions Suspending Beads or silicones in surfactant formulations</p> <p><i>Typical use levels</i> 0.5% to 2.0% solids</p>	Aculyn 88	<p>Milky white liquid Crosslinked Associative Rheology modifier 29% Solids Anionic pH 3.8 Thickens above pH 6.0</p>	Acrylates/ Steareth-20 Methacrylate Crosspolymer
Hair Fixative Resin	<ul style="list-style-type: none"> <li>•Liquid form</li> <li>•Compatible with Aqueous &amp; Aqueous alcoholic systems</li> <li>•Excellent process control</li> <li>•Emulsion form</li> <li>•Non-Corrosive</li> </ul>	<ul style="list-style-type: none"> <li>•Virtually no-tack on Hair</li> <li>•Superior hold and feel</li> <li>•High humidity curl retention property</li> <li>•Film forming property</li> <li>•Optimum film tensile strength</li> <li>•No built-up on Hair</li> <li>•Economical in formulations</li> <li>•Quick &amp; Easy to formulate</li> <li>•Compatible with 55-80% VOC pump sprays</li> </ul>	<p>Aerosol sprays (55% VOC) Pump sprays (55% VOC) Gel's Pomades Waxes Puttys Lotions</p> <p><i>Typical use levels</i> 2.0% solids in Gel's 4.0% to 7.0% solids in pump or aerosol sprays</p>	Acudyne 180	<p>Milky white emulsion in water Tetra polymer of methacrylic acid, hydroxyethyl methacrylate and butyl acrylate. 48% to 49% solids pH 3.8</p>	Acrylates/ Steareth-20 Methacrylate Crosspolymer
Durable Hold Resin	<ul style="list-style-type: none"> <li>•Liquid form</li> <li>•Film forming property</li> <li>•Highly competent styling agent</li> <li>•Excellent process control</li> <li>•Emulsion form</li> <li>•Ease of formulation</li> <li>•Non-Corrosive</li> </ul>	<ul style="list-style-type: none"> <li>•All day flexible style</li> <li>•Tough film</li> <li>•Non-Sticky</li> <li>•No built-up</li> <li>•Easy shampoo removability</li> <li>•Non-Corrosive to aerosol tin plate cans</li> <li>•Excellent humidity resistance</li> <li>•Tunable stiffness on Hair</li> <li>•High humidity curl retention</li> <li>•Imparts shine on hair</li> <li>•Compatible with 55-80% VOC pump sprays &amp; Aerosols</li> </ul>	<p>Aerosol sprays (55% VOC and 80% VOC) Pump sprays (55% VOC and 80% VOC) Alcohol free sprays and Mousses Gels</p> <p><i>Typical use levels</i> 2.0% to 10.0% solids</p>	Acudyne DHR	<p>Off white to milky emulsion in water Tetra polymer of methacrylic acid, hydroxyethyl methacrylate and butyl acrylate 44% to 46% solids pH 3.8</p>	Acrylates/ Hydroxyesters Acrylates Copolymer

Styling Conditioning Polymer	<ul style="list-style-type: none"> <li>•Liquid form</li> <li>•Pre-neutralized polymer</li> <li>•Film forming property</li> <li>•Highly competent styling agent</li> <li>•Excellent process control</li> <li>•Emulsion form</li> <li>•Ease of formulation</li> <li>•Good adhesion to hair</li> <li>•Non-Corrosive</li> </ul>	<ul style="list-style-type: none"> <li>•All day flexible style</li> <li>•Crunchy stiff hold</li> <li>•Non-Flaking</li> <li>•Non-Sticky</li> <li>•No built-up</li> <li>•Conditioned feel &amp; shine</li> <li>•Excellent humidity resistance</li> <li>•High humidity curl retention</li> <li>•Imparts shine on hair</li> <li>•Conditioning effect</li> <li>•Natural feel and smooth texture</li> </ul>	Gels Styling lotions and creams Hair waxes Pomades Puttys 6% aerosol mousses  <i>Typical use levels</i> 0.5% to 2.0% solids	Acudyne SCP	Clear colourless liquid Tetra polymer of methacrylic acid, hydroxyethyl methacrylate and butyl acrylate. 25 – 27% Solids pH 3.8	Acrylamide/ Sodium Acryloyldimethyltaurate/ Acrylic acid Copolymer
Broad Spectrum Preservative	<ul style="list-style-type: none"> <li>•Preservative for Rinse-off products</li> <li>•Liquid form</li> <li>•Broad spectrum of activity</li> <li>•Registered worldwide including Japan</li> <li>•Good compatibility with surfactants &amp; emulsifiers</li> <li>•Low toxicity</li> <li>•Rapidly biodegradable &amp; Safe for the environment</li> <li>•Does not release or generate formaldehyde</li> </ul>	<ul style="list-style-type: none"> <li>•Totally miscible in Water, Glycols &amp; Lower alcohols</li> <li>•Outstanding activity against Gram +ve &amp; Gram –ve Bacteria, Molds &amp; Yeast</li> <li>•Ease of formulation</li> <li>•Extensive safety profile</li> <li>•Excellent stability over a wide range of pH</li> <li>•Extremely low use levels (Max 15ppm active)</li> </ul>	Body washes Shampoos Rinse-off conditioners Liquid soaps Wipes Suitable for all types of rinse-off applications  <i>Typical use levels</i> 0.1% maximum as supplied in Rinse-off products	Kathon CG	Clear liquid pH 1.7 to 3.7 1.5% Active	Methylchloroisothiazolinone Methylisothiazolinone
Broad spectrum Preservative	<ul style="list-style-type: none"> <li>•Globally approved</li> <li>•Excellent Broad spectrum of activity</li> <li>•Formaldehyde free &amp; does not release formaldehyde</li> <li>•Preservative for Leave-on products</li> <li>•Liquid form</li> <li>•Good compatibility with surfactants, emulsifiers, ZPTO, Avobenzone.</li> <li>•Low toxicity</li> <li>•Rapidly biodegradable &amp; Safe for the environment</li> </ul>	<ul style="list-style-type: none"> <li>•Totally miscible in Water, Glycols &amp; Lower alcohols</li> <li>•Outstanding activity against Gram +ve &amp; Gram –ve Bacteria, Molds &amp; Yeast</li> <li>•Ease of formulation</li> <li>•Extensive safety profile</li> <li>•Excellent stability over a wide range of pH</li> </ul>	Skin care lotions and creams Body moisturizers Sun care products Hair gels Wipes Suitable for all types of Rinse-off and Leave-on applications  <i>Typical use levels</i> 0.33% to 0.67% as supplied	Neolone MXP	Clear, colorless to pale yellow liquid pH 4.0 to 6.0	Phenoxyethanol Methylparaben Propylparaben Methylisothiazolinone
Broad Spectrum Preservative	<ul style="list-style-type: none"> <li>•Globally approved</li> <li>•Excellent Broad spectrum of activity</li> <li>•Formaldehyde free &amp; does not release formaldehyde</li> <li>•Paraben-free preservative</li> <li>•Preservative for Leave-on products</li> <li>•Liquid form</li> <li>•Good compatibility with surfactants, emulsifiers, ZPTO, Avobenzone</li> <li>•Low toxicity</li> <li>•Rapidly biodegradable &amp; Safe for the environment</li> </ul>	<ul style="list-style-type: none"> <li>•Totally miscible in Water, Glycols &amp; Lower alcohols</li> <li>•Outstanding activity against Gram +ve &amp; Gram –ve Bacteria, Molds &amp; Yeast</li> <li>•Ease of formulation</li> <li>•Extensive safety profile</li> <li>•Stable over a pH range of 2 to 12</li> <li>•Excellent stability over a wide range of pH</li> </ul>	Skin care lotions and creams Conditioners Shampoos Anti-Dandruff shampoos Body moisturizers Sun care products Hair gels Wipes Rinse-off and Leave-on applications  <i>Typical use levels</i> 0.30% to 0.60% as supplied	Neolone PE	Clear, colorless to pale yellow liquid pH 4.0 to 6.0	Phenoxyethanol Methylisothiazolinone
Broad Spectrum Bactericide Preservative	<ul style="list-style-type: none"> <li>•Broad spectrum Bactericide</li> <li>•Effective alternative to formaldehyde donor</li> <li>•Liquid form</li> <li>•Compatible with fungicides like Methyl Paraben</li> <li>•Good compatibility with surfactants, emulsifiers, ZPTO, Avobenzone</li> <li>•Low toxicity</li> </ul>	<ul style="list-style-type: none"> <li>•Totally miscible in Water, Glycols &amp; Lower alcohols</li> <li>•Outstanding activity against Gram +ve &amp; Gram –ve Bacteria</li> <li>•Ease of formulation</li> <li>•Extensive safety profile</li> <li>•Extremely low use levels</li> <li>•Stable over a pH range of 2 to 12</li> <li>•Excellent stability over a wide range of pH</li> </ul>	Skin care lotions and creams, Conditioners Shampoos, Anti-Dandruff shampoos Body moisturizers Sun care products Hair gels, Wipes  <i>Typical use levels</i> 0.1% maximum as supplied	Neolone 950	Clear liquid pH 3.0 to 6.0 9.5% Active	Methylisothiazolinone

Opacifier	<ul style="list-style-type: none"> <li>•Liquid form</li> <li>•Ease of processing</li> <li>•APE free</li> <li>•Low residual monomer</li> <li>•Non-Hazardous</li> <li>•Good salt tolerance</li> <li>•Broad formulation utility</li> <li>•Needs to be neutralized</li> </ul>	<ul style="list-style-type: none"> <li>•High whiteness</li> <li>•Uniform opacity</li> <li>•Stable in cationic systems</li> <li>•Enhances effect of dyes</li> <li>•Effective at very low use levels</li> <li>•Cold process possible</li> <li>•Dense cream-like appearance</li> <li>•Hides Ambercaste and Haziness</li> </ul>	<p>Bath and shower products Shampoos Toilet soaps Liquid soaps Laundry &amp; Dishwash detergents Household cleaners Hair Conditioners</p> <p><i>Typical use levels</i> 0.1% to 1.0% as supplied</p>	Opulyn 301	<p>Water based styrene/ acrylic emulsion Milky liquid Anionic 40% Solids 0.17 microns particle size pH 2.1 to 2.5 &lt;50 Cps Viscosity</p>	Styrene/ Acrylates copolymer
Opacifier	<ul style="list-style-type: none"> <li>•Liquid form</li> <li>•Ease of processing</li> <li>•APE free</li> <li>•Non-Hazardous</li> <li>•Good salt tolerance</li> <li>•Broad formulation utility</li> <li>•Needs to be neutralized</li> </ul>	<ul style="list-style-type: none"> <li>•High whiteness</li> <li>•Uniform opacity</li> <li>•Stable in Cationic systems</li> <li>•Enhances effect of dyes</li> <li>•Effective at very low use levels</li> <li>•Cold process possible</li> <li>•Dense cream-like appearance</li> <li>•Hides Ambercaste and Haziness</li> </ul>	<p>Bath and shower products Shampoos Toilet soaps Liquid soaps Laundry &amp; Dishwash detergents Household cleaners Hair Conditioners</p> <p><i>Typical use levels</i> 0.1% to 1.0% as supplied</p>	Opulyn 303B	<p>Water based styrene/ acrylic emulsion Milky liquid Non-ionic 40% Solids 0.25 microns particle size pH 4.0 to 5.0 &lt;50 Cps Viscosity</p>	Styrene/ Acrylamide copolymer
SPF Booster	<ul style="list-style-type: none"> <li>•Powder form</li> <li>•Increases SPF for a given active</li> <li>•Compatible with most skin conditioners</li> <li>•Compatible with anionic &amp; nonionic emulsifiers</li> <li>•Cold processable</li> <li>•Silky feel</li> <li>•Easy to formulate &amp; Handle</li> </ul>	<ul style="list-style-type: none"> <li>•Significantly boosts SPF across entire UV region</li> <li>•Allows reduced amounts of UVA &amp; UVB actives</li> <li>•Functions with both inorganic &amp; organic actives</li> <li>•Compatibility with all commonly used sunscreen ingredients</li> <li>•Potential reduction in irritation caused by actives</li> <li>•Cost effective</li> <li>•Easy to disperse</li> </ul>	<p>Daily wear products with UV protection SPF 15 Moderate protection sunscreens SPF&gt;25 High protection sunscreens Color cosmetics</p> <p><i>Typical use levels</i> 1.0% to 5.0% as supplied</p>	Sunspheres Powder	<p>Hollow spheres 350 nm diameter 90% Active</p>	Styrene/ Acrylates copolymer



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