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| AG™ 6206                  | Short chain alkyl polyglucoside - nonionic based on short chain fatty alcohol with relatively low foam.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Approved by EPA for direct release into the environment  
• High caustic stability  
• Co-surfactant to boost performance cleaning formulation  
• Good solubility in water containing high level of electrolytes                                                                                                                                                                                                                     | • All Purpose Cleaners (APC)  
• High alkaline cleaning  
• Cleaning in Place (CIP)  
• Machine dishwashing  
• Offshore cleaners (REACH approved)                                                                                                                                                                                                                                                  |
| Alcoguard® H 5240         | Water based bio-polymer providing the performance of full synthetic polymers while increasing biodegradability and sustainability.                                                                                                                                                                                                                                                                                                                                                                                                   | • Anti-redeposition, dispersancy, anti-encrustation and detergenty equal to or better than synthetic polyacrylates  
• Improved compatibility with surfactants  
• Improved calcium, iron and electrolyte tolerance  
• Lower carbon footprint than synthetic polyacrylates                                                                                                                                                                                                                                       | • Consumer and commercial machine dishwashing  
• Liquid and powder laundry  
• Hard surface cleaners  
• Acidic and alkaline cleaners                                                                                                                                                                                                                                                                   |
| Alcoguard® H 5941         | Second generation bio-based water soluble polymer which is more sustainably sourced and readily biodegradable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | • Anti-redeposition, anti-encrustation and anti-film forming  
• Best-in-class readily biodegradable water soluble polymer  
• Dispersant and anti-scalent with improved calcium, iron and electrolyte stability  
• Lowest carbon footprint polymer with up to 75% renewable, bio-based contents                                                                                                                                                                                                                                             | • Consumer and commercial machine dishwashing  
• Liquid and powder laundry  
• Hard surface cleaners  
• Acetic and alkaline cleaning                                                                                                                                                                                                                                                                                                       |
| Alcosperse® 602N          | Cost effective multi-purpose synthetic polymer with optimized molecular weight for cleaning formulations. Available as both the liquid and dry powder product forms to broaden customer formulation possibilities.                                                                                                                                                                                                                                                                                                                                                     | • Crystal growth inhibition preventing precipitation of carbonates, phosphates or silicates  
• Dispersion of particulates in the cleaning bath to avoid settling and scaling on surfaces and fibers  
• Increased bleach stability by binding heavy metals which destabilize chlorine species through catalytic reactions  
• Reduces filming by soil dispersion, which minimizes organic components deposition on glass and dishware  
• Available as aqueous solution or powder                                                                                                                                                                                                                      | • Consumer and commercial machine dishwashing  
• Chlorine bleach and bleach based cleaners  
• Liquid and powder laundry  
• Hard surface cleaners                                                                                                                                                                                                                                                                                                       |
| Alcosperse® 602N DRY      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                           |
| Alcosperse® 726           | Unique, high-purity hydrotroping acrylic/styrene copolymer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Hydrotroping of surfactants into heavy duty liquids  
• Particulate and oily soil dispersion/suspension  
• Protective corrosion inhibition  
• Hypochlorite stable  
• Calcium binding                                                                                                                                                                                                                                                                                                                                                                   | • Liquid laundry  
• Machine dishwash  
• Chlorine bleach based cleaners  
• Alkaline cleaning                                                                                                                                                                                                                                                                                                                      |
| Berol® 226 SA             | Optimized surfactant for high performance cleaning and degreasing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Easy to formulate  
• Cost effective solution  
• Wide range of applications                                                                                                                                                                                                                                                                                                                                                                     | • Acidic and alkaline cleaners  
• All Purpose Cleaners (APC)  
• Vehicle cleaners  
• Water based degreasers  
• Deck and floor cleaners                                                                                                                                                                                                                                                                                                                                 |
| Berol® 260                | Highly targeted, narrow range nonionic surfactants for more effective cleaning. Berol 260 excellent fatty soil removal. Berol 266 two cloud points for effective cleaning at high and low temperatures.                                                                                                                                                                                                                                                                                                                                                                            | • Effective at very low concentrations  
• Low residual free alcohol  
• Better low temperature handling  
• Reduced or no need for defoamers                                                                                                                                                                                                                                                                                           | • Hard surface cleaning  
• Vehicle cleaning  
• Water based alkaline cleaners  
• Microemulsions  
• All Purpose Cleaners (APC)                                                                                                                                                                                                                                                                                                                   |
| Berol® 266                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                           |
| Berol® 561                | Multifunctional co-surfactant that elevates the degreasing power of nonionic surfactants.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | • Delivers superior solubilization power  
• Outperforms conventional hydrotropes  
• Reduces or eliminates the need for hazardous solvents  
• Corrosion inhibition                                                                                                                                                                                                                                                                                                                                                           | • All Purpose Cleaners (APC)  
• Hydrotroping  
• Acidic and alkaline cleaners                                                                                                                                                                                                                                                                                                                                                     |
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<td>Berol® 609</td>
<td>High performance nonionic surfactant that directly replaces NP9 in cleaning formulations.</td>
<td>• Direct drop-in replacement for NP9 in aqueous cleaning formulations • Lower pour point and viscosity than NP9 mean easier handling • Dissolves much more rapidly in cold water than NP9 and without gelling</td>
<td>• Acidic and alkaline cleaners • Cleaning In Place (CIP) applications • Pressure wash systems • NPE replacers • Vehicle cleaners</td>
</tr>
<tr>
<td>Berol® DGR B1</td>
<td>Optimized specialty surfactant for single surfactant systems.</td>
<td>• Good wetting and cleaning properties, together with builder it can replace solvent based cleaners • Can be used in weak to strong acid conditions • High solubility in water to formulate very high concentrated cleaning products • Low to medium foaming depending on concentration and temperature</td>
<td>• High alkaline cleaners • Off-shore cleaning • Traffic film remover • Vehicle cleaning • Highly concentrated cleaners and degreasers</td>
</tr>
<tr>
<td>Berol® DR-B1</td>
<td>High performance degreasing surfactant approved for direct release into the environment.</td>
<td>• Approved by EPA for direct release into the environment • Easily formulated into highly effective cleaners and degreasers • Maintains or even increases the performance of non-approved cleaners while allowing the formulator to make “direct release” claims</td>
<td>• Marine and live-well cleaning • Outdoor cleaning - house, deck &amp; fence wash • Vehicle cleaning</td>
</tr>
<tr>
<td>Dissolvine® GL-47-S</td>
<td>Cost effective, safe and “green”</td>
<td>• Soluble over a wide range of pH’s • Natural origin index of 0.56 • Strong metal binding for hard water and transition metals</td>
<td>• All types of Cleaning • Scale removal • Outdoor use • Oxidant stability • Laundry Detergents</td>
</tr>
<tr>
<td>Dissolvine® M-40</td>
<td>Cost effective, safe and “green”</td>
<td>• Strong metal chelate for hard water and transition metals</td>
<td>• Automatic Dish Wash • Laundry Detergents • Hard Surface Cleaning</td>
</tr>
<tr>
<td>Ethylan® 1005 Ethylan® 1008</td>
<td>Low foaming, low aquatic toxicity, with excellent degreasing performance.</td>
<td>• Approved by EPA for direct release into the environment • Exhibits excellent wetting and fatty soil removal in water based cleaning products • Ethylan 1005 requires a hydrotrope to be water soluble</td>
<td>• Engine cleaning • Vehicle cleaning • Micro emulsions • All purpose cleaning • Additive to laundry detergent • Machine dishwashing • Rinse aid for machine dishwashing</td>
</tr>
<tr>
<td>Peroxy-Blend® PB33</td>
<td>Optimized specialty oxidant containing hydrogen peroxide for use in acid to alkaline cleaning formulations.</td>
<td>• Approved by EPA for direct release into the environment • Stable oxygen bleaching alternative • Enhanced cleaning effect on metal • Chlorine free environmentally friendly product • Stable in acidic to mildly alkaline systems</td>
<td>• Hard surface cleaning • Metal cleaning &amp; brightening • Alkaline cleaners • Soft surface cleaning (carpet) • Stain removal &amp; bleaching • Wheel cleaning</td>
</tr>
<tr>
<td>Witconate™ NAS-88</td>
<td>Anionic, sustainable hytrotropes.</td>
<td>• Approved by EPA for direct release into the environment (Witconate™ NAS-88) • Imparts some cleaning in addition to coupling • Hypochlorite stable</td>
<td>• All Purpose Cleaners (APC) • Liquid detergents • Vehicle cleaning • Water based alkaline cleaners • Suitable for powder detergents</td>
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