


# CleanGredients® - Product Guide

For Safer Choice Formulations



Nouryon

Tradename	Value proposition	Features and benefits	Application area
AG™ 6206 	Short chain alkyl polyglucoside - nonionic based on short chain fatty alcohol with relatively low foam.	<ul style="list-style-type: none"> <li>• Approved by EPA for direct release into the environment</li> <li>• High caustic stability</li> <li>• Co-surfactant to boost performance cleaning formulation</li> <li>• Good solubility in water containing high level of electrolytes</li> </ul>	<ul style="list-style-type: none"> <li>• All Purpose Cleaners (APC)</li> <li>• High alkaline cleaning</li> <li>• Cleaning in Place (CIP)</li> <li>• Machine dishwashing</li> <li>• Offshore cleaners (REACH approved)</li> </ul>
Alcoguard® H 5240	Water based bio-polymer providing the performance of full synthetic polymers while increasing biodegradability and sustainability.	<ul style="list-style-type: none"> <li>• Anti-redeposition, dispersancy, anti-encrustation and detergency equal to or better than synthetic polyacrylates</li> <li>• Improved compatibility with surfactants</li> <li>• Improved calcium, iron and electrolyte tolerance</li> <li>• Lower carbon footprint than synthetic polyacrylates</li> </ul>	<ul style="list-style-type: none"> <li>• Consumer and commercial machine dishwashing</li> <li>• Liquid and powder laundry</li> <li>• Hard surface cleaners</li> <li>• Acidic and alkaline cleaners</li> </ul>
Alcoguard® H 5941	Second generation bio-based water soluble polymer which is more sustainably sourced and readily biodegradable.	<ul style="list-style-type: none"> <li>• Anti-redeposition, anti-encrustation and anti-film forming</li> <li>• Best-in-class readily biodegradable water soluble polymer</li> <li>• Dispersant and anti-scalent with improved calcium, iron and electrolyte stability</li> <li>• Lowest carbon footprint polymer with up to 75% renewable, bio-based contents</li> </ul>	<ul style="list-style-type: none"> <li>• Consumer and commercial machine dishwashing</li> <li>• Liquid and powder laundry</li> <li>• Hard surface cleaning</li> <li>• Acidic and alkaline cleaning</li> </ul>
Alcosperse® 602N Alcosperse® 602N DRY	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.	<ul style="list-style-type: none"> <li>• Crystal growth inhibition preventing precipitation of carbonates, phosphates or silicates</li> <li>• Dispersion of particulates in the cleaning bath to avoid settling and scaling on surfaces and fibers</li> <li>• Increased bleach stability by binding heavy metals which destabilize chlorine species through catalytic reactions</li> <li>• Reduces filming by soil dispersion, which minimizes organic components deposition on glass and dishware</li> <li>• Available as aqueous solution or powder</li> </ul>	<ul style="list-style-type: none"> <li>• Consumer and commercial machine dishwashing</li> <li>• Chlorine bleach and bleach based cleaners</li> <li>• Liquid and powder laundry</li> <li>• Hard surface cleaners</li> </ul>
Alcosperse® 726	Unique, high-purity hydrotroping acrylic/styrene copolymer.	<ul style="list-style-type: none"> <li>• Hydrotroping of surfactants into heavy duty liquids</li> <li>• Particulate and oily soil dispersion/suspension</li> <li>• Protective corrosion inhibition</li> <li>• Hypochlorite stable</li> <li>• Calcium binding</li> </ul>	<ul style="list-style-type: none"> <li>• Liquid laundry</li> <li>• Machine dishwash</li> <li>• Chlorine bleach based cleaners</li> <li>• Alkaline cleaning</li> </ul>
Berol® 226 SA	Optimized surfactant for high performance cleaning and degreasing.	<ul style="list-style-type: none"> <li>• Easy to formulate</li> <li>• Cost effective solution</li> <li>• Wide range of applications</li> </ul>	<ul style="list-style-type: none"> <li>• Acidic and alkaline cleaners</li> <li>• All Purpose Cleaners (APC)</li> <li>• Vehicle cleaners</li> <li>• Water based degreasers</li> <li>• Deck and floor cleaners</li> </ul>
Berol® 260 Berol® 266	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.	<ul style="list-style-type: none"> <li>• Effective at very low concentrations</li> <li>• Low residual free alcohol</li> <li>• Better low temperature handling</li> <li>• Reduced or no need for defoamers</li> </ul>	<ul style="list-style-type: none"> <li>• Hard surface cleaning</li> <li>• Vehicle cleaning</li> <li>• Water based alkaline cleaners</li> <li>• Microemulsions</li> <li>• All Purpose Cleaners (APC)</li> </ul>
Berol® 561	Multifunctional co-surfactant that elevates the degreasing power of nonionic surfactants.	<ul style="list-style-type: none"> <li>• Delivers superior solubilization power</li> <li>• Outperforms conventional hydrotropes</li> <li>• Reduces or eliminates the need for hazardous solvents</li> <li>• Corrosion inhibition</li> </ul>	<ul style="list-style-type: none"> <li>• All Purpose Cleaners (APC)</li> <li>• Hydrotroping</li> <li>• Acidic and alkaline cleaners</li> </ul>

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Berol® 609	High performance nonionic surfactant that directly replaces NP9 in cleaning formulations.	<ul style="list-style-type: none"> <li>• Direct drop-in replacement for NP9 in aqueous cleaning formulations</li> <li>• Lower pour point and viscosity than NP9 mean easier handling</li> <li>• Dissolves much more rapidly in cold water than NP9 and without gelling</li> </ul>	<ul style="list-style-type: none"> <li>• Acidic and alkaline cleaners</li> <li>• Cleaning In Place (CIP) applications</li> <li>• Pressure wash systems</li> <li>• NPE replacers</li> <li>• Vehicle cleaners</li> </ul>
Berol® DGR 81	Optimized specialty surfactant for single surfactant systems.	<ul style="list-style-type: none"> <li>• Good wetting and cleaning properties, together with builder it can replace solvent based cleaners</li> <li>• Can be used in weak to strong acid conditions</li> <li>• High solubility in water to formulate very high concentrated cleaning products</li> <li>• Low to medium foaming depending on concentration and temperature</li> </ul>	<ul style="list-style-type: none"> <li>• High alkaline cleaners</li> <li>• Off-shore cleaning</li> <li>• Traffic film remover</li> <li>• Vehicle cleaning</li> <li>• Highly concentrated cleaners and degreasers</li> </ul>
Berol® DR-B1 	High performance degreasing surfactant approved for direct release into the environment.	<ul style="list-style-type: none"> <li>• Approved by EPA for direct release into the environment</li> <li>• Easily formulated into highly effective cleaners and degreasers</li> <li>• Maintains or even increases the performance of non-approved cleaners while allowing the formulator to make "direct release" claims</li> </ul>	<ul style="list-style-type: none"> <li>• Marine and live-well cleaning</li> <li>• Outdoor cleaning - house, deck &amp; fence wash</li> <li>• Vehicle cleaning</li> </ul>
Dissolvine® GL-47-S	Cost effective, safe and "green"	<ul style="list-style-type: none"> <li>• Soluble over a wide range of pH's</li> <li>• Natural origin index of 0.56</li> <li>• Strong metal binding for hard water and transition metals</li> </ul>	<ul style="list-style-type: none"> <li>• All types of Cleaning</li> <li>• Scale removal</li> <li>• Outdoor use</li> <li>• Oxidant stability</li> <li>• Laundry Detergents</li> </ul>
Dissolvine® M-40	Cost effective, safe and "green"	<ul style="list-style-type: none"> <li>• Strong metal chelate for hard water and transition metals</li> </ul>	<ul style="list-style-type: none"> <li>• Automatic Dish Wash</li> <li>• Laundry Detergents</li> <li>• Hard Surface Cleaning</li> </ul>
Ethylan® 1005 Ethylan® 1008 	Low foaming, low aquatic toxicity, with excellent degreasing performance.	<ul style="list-style-type: none"> <li>• Approved by EPA for direct release into the environment</li> <li>• Exhibits excellent wetting and fatty soil removal in water based cleaning products</li> <li>• Ethylan 1005 requires a hydrotrope to be water soluble</li> </ul>	<ul style="list-style-type: none"> <li>• Engine cleaning</li> <li>• Vehicle cleaning</li> <li>• Micro emulsions</li> <li>• All purpose cleaning</li> <li>• Additive to laundry detergent</li> <li>• Machine dishwashing</li> <li>• Rinse aid for machine dishwashing</li> </ul>
Peroxy-Blend® PB33	Optimized specialty oxidant containing hydrogen peroxide for use in acid to alkaline cleaning formulations.	<ul style="list-style-type: none"> <li>• Approved by EPA for direct release into the environment</li> <li>• Stable oxygen bleaching alternative</li> <li>• Enhanced cleaning effect on metal</li> <li>• Chlorine free environmentally friendly product</li> <li>• Stable in acidic to mildly alkaline systems</li> </ul>	<ul style="list-style-type: none"> <li>• Hard surface cleaning</li> <li>• Metal cleaning &amp; brightening</li> <li>• Alkaline cleaners</li> <li>• Soft surface cleaning (carpet)</li> <li>• Stain removal &amp; bleaching</li> <li>• Wheel cleaning</li> </ul>
Witconate™ NAS-88 	Anionic, sustainable hyrotropes.	<ul style="list-style-type: none"> <li>• Approved by EPA for direct release into the environment (Witconate™ NAS-88)</li> <li>• Imparts some cleaning in addition to coupling</li> <li>• Hypochlorite stable</li> </ul>	<ul style="list-style-type: none"> <li>• All Purpose Cleaners (APC)</li> <li>• Liquid detergents</li> <li>• Vehicle cleaning</li> <li>• Water based alkaline cleaners</li> <li>• Suitable for powder detergents</li> </ul>

 = Direct release

"The use of any of these ingredients in your formulation may allow you to put the following logo on your label"

