



PRODUCTNAME APPLICATION AREA DESCRIPTION
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Oligomeric threshold-active sequestring and dispersing agents

HYDRODIS ADW 3814/N	Threshold-active, non-Ca-sensitive sequestering and dispersing agent with pronounced dirt-carrying capacity. In addition to household, commercial and industrial cleaners, it is particularly suitable for machine dishwashers (ADW).	Oligomeric phosphonic acid (patented). Good replacement for polyphosphates and polyacrylates. Partial replacement of NTA. Excellent threshold effect even at very high pH. Excellent dispersing agent. Particularly well suited as inhibitor for CaSO4 in reverse osmosis in sea water desalination. Good anti-redeposition aid, increases secondary detergency. Stable against hydrolysis. Clear solubility over the whole pH range.
HYDRODIS LW 3875	Threshold-active, non calcium sensitive sequestering and dispersing agent with pronounced soil release properties. Excels in its very good combination of sequestering and dispersing properties.	good dispersing properties. Reduces deposits on the fiber and avoids whites degradation
HYDRODIS WP 3204/G	Powder product. Threshold-active, non-Ca-sensitive sequestering and dispersing agent with pronounced dirt-dissolving properties. The product is recommended for use in dishwashers. Granules.	Oligomeric phosphonic acid (patented). Replaces NTA, EDTA, polyphosphates and polyacrylates. Pronounced threshold effect, even at a very high pH. The product is recommended for use in dishwashers. FOR POWDER PRODUCTS.
HYDRODIS WP 40/N	Threshold active, non calcium sensitive sequestering and dispersing agent. For household, professional and industrial cleaners. Also available as free acid (WP 40) and partially neutralized. (WP 40/P)	Oligomeric phosphonic acid (patented). Good replacement for polyphosphates and polyacrylates. Pronounced threshold-effect even at a very high pH. Higher sequestering power then Hydrodis WP 56/N. Good dirt holding capacity.
HYDRODIS WP 56 S	Threshold active, chlorine-free, non calcium sensitive sequestering and dispersing agent with pronounced soil suspension properties. For household, professional and industrial cleaners.	Oligomeric phosphonic acid (patented). Particularly suitable for metal-working, cooling lubricants and electro-plating.





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HYDRODIS WP 56/N	Threshold-active, not calcium sensitive sequestering and dispersing agent with excellent soil suspending properties. For household, professional and industrial cleaners. Also available as free acid (WP 56) and partially neutralized. (WP 56/P)	Oligomeric phosphonic acid (patented). Good replacement for polyphosphates and polyacrylates. Partial replacement of NTA. Excellent threshold effect even at very high pH. Excellent dispersing agent. Particularly well suited as inhibitor for CaSO4 in reverse osmosis in sea water desalination. Good anti-redeposition aid, increases secondary detergency. Stable against hydrolysis. Clear solubility over the whole pH range.		
HYDRODIS WP 562/N	Threshold active, non calcium sensitive sequestering and dispersing agent. Recommended for use in automated dish washing.	Oligomeric phosphonic acid (patented). Replaces NTA, EDTA, polyphosphate and polyacrylates. Pronounced threshold effect even at very high pH. Combines properties of HYDRODIS WP 56/N and HYDRODIS WP 40/N		
POLYQUEST O-630	Threshold-active, non-Ca-sensitive sequestering and dispersing agent with pronounced dirt-carrying capacity. For household, commercial and industrial cleaners. Redeposition of deposits on the fibers is reduced in detergents.	Replaces NTA, EDTA, polyphosphates and polyacrylates. Pronounced threshold effect, even at a very high pH. Good secondary washing power and good graying inhibitor. Resistant to hydrolysis. Clear solubility in the entire pH range.		
Other threshold-active sequestring and dispersing agents				
PERMULSIN SL	Threshold active phosphorous-free sequestering and dispersing agent with pronounced soil suspending properties. For household, professional and industrial cleaners. Also available as free acid.	Stable against active chlorine, H_2O_2 . Suitable in disinfectants. Completely soluble in water, very good stability from pH 2 to pH 12, very good stability even at temperatures between 120 and 130° C.		
POLYQUEST B-194	Threshold active sequestering and dispersing agent. For household, professional and industrial cleaners. Prevents deposition of calcium salts (bottle washing, beverage industry). In combination with TENSAN TEM excellent corrosion inhibitor in acidic environment.	High sequestering capacity for CaCO ₃ , very good at pH 10-12, excellent cost-benefit ratio, good threshold effect, particularly good lime soap dispersing capacity. Used in electroplating to remove interference ions.		





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POLYQUEST BO-393	Threshold-active sequestering and dispersing agent with pronounced soil suspending capacity. For household, commercial and industrial cleaners based on oxidative media (e.g. hypochlorite).	Stable to active chlorine and H_2O_2 . Used for disinfectants. Completely soluble in water, very good solubility at a pH value of >7. Good sequestering capacity of Mg ions. Biodegradable without problems.
POLYQUEST E-390	Threshold-active sequestering and dispersing agent for liquid and powder products in automated dish-washing. Part replacement of sodium tripolyphosphates. For I+I as well as household detergents. Inhibits incrustations and stabilises hydroperoxide.	ions makes it an excellent choice at very high to very low pH values. Stable against
POLYQUEST FG-423	Threshold-active sequestering and dispersing agent. For household, commercial and industrial cleaners and detergents. Prevents incrustations during bottle cleaning and limescale deposits in brewery kettles. Granules.	
POLYQUEST I-030	Extremely pure threshold active sequestering and dispersing agent. Stabilizes hydrogen peroxide, peracetic acid, perborates and percarbonates. Recommended for all uses where only a minimum of impurities is permitted.	
POLYQUEST I-179	Threshold active sequestering and dispersing agent. Granules. For household, profesional and industrial cleaners.	Low hygroscopy. Stabiliser for percarbonates and perborates.
POLYQUEST IG-905	Threshold-active sequestering and dispersing agent. Particularly suitable for dishwasher tabs, as well as household, commercial and industrial cleaners. Stabilizes hydrogen peroxide, peracetic acid, perborates and percarbonates. Granules.	range. Good CaCO₃ sequestering capacity in a basic environment. High purity. Stable in





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POLYQUEST IP-385	Threshold active sequestering and dispersing agent. For household, profesional and industrial cleaners. Stabilises e.g. hydrogen peroxide, peracetic acid, perborates and percarbonates.	Very good sequestering capacity of Fe ions at very high to very low pH values. Good CaCO ₃ sequestrability in a basic environment. High purity. Powder. Stable in oxidative media.
POLYQUEST V-103	Threshold active phosphorous-free sequestering and dispersing agent with pronounced soil release properties. For household and I+I cleaners. Good sequestering properties w.r.t. CaCO ₃ and CaSO ₄ .	Stable against active chlorine and H_2O_2 . Resistant to hydrolysis, even at high temperatures and at very high to very low pH values.
POLYQUEST V-198	Threshold active phosphorous-free sequestering and dispersing agent with pronounced soil suspension properties. For household, professional and industrial cleaners. Prevents deposits of CaCO ₃ , CaSO ₄ , Ba-SO ₄ , Ca ₃ (PO ₄)2 or the corresponding Mg salts.	Stable against active chlorine and H_2O_2 . Phosphorus-free alternative in water treatment. Resistant to hydrolysis, even at high temperatures and at very high to very low pH values.
POLYQUEST V-395	Threshold-active sequestering and dispersing agent with pronounced dirt-carrying capacity. For household, commercial and industrial cleaners. Also prevents calcification of high pressure cleaners and heat exchangers.	Replacement for polyphosphate, EDTA, DTPA and NTA. Also used as a corrosion inhibitor for aluminum and iron in an alkaline environment. It boosts the cleaning effect of surfactants and should only be used at pH>6.
POLYQUEST V-405 NEW	Biodegradable sequestering agent, especially for industrial applications in a basic environment.	Replaces EDTA and NTA at higher pH values. Chelating also for trivalent metal ions (especially Fe ³⁺). Based on renewable raw materials.
POLYQUEST V-616	Threshold-active, non Ca-sensitive sequestering and dispersing agent. For household, commercial and industrial cleaners.	Combines very good sequestering capacity with good dispersing capacity. Very good complexing properties towards Ca and Mg ions in a very wide pH range. Also very effective under strongly alkaline conditions (pH>12).





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POLYQUEST VG-670	Threshold-active sequestering and dispersing agent. Particularly suitable for solid detergents or dishwasher tablets, as well as for household, commercial and industrial cleaners. Granules.	High sequestering capacity for CaCO ₃ , very good at pH 10-12, good threshold effect. FOR POWDER PRODUCTS.
SEQUION 10 H 60		Almost free of chlorine and iron ions. Very good sequestering power for iron ions over the whole pH range. Good CaCO₃ sequestering power in alkaline environment. High purity. Stable in oxidative media.
SEQUION 10 NA 430	household, professional and industrial cleaners. Stabilises	Almost completely chlorine and iron-free. Particularly good sequestering properties for iron ions over the whole pH range. Good sequestering agent for CaCO ₃ in alkaline environment. Particularly pure quality. Stable in oxidative environment.
SEQUION 10 NA G		Almost free of chlorine and iron ions. Very good sequestering power for iron ions over the whole pH range. Good CaCO₃ sequestering power in alkaline environment. High purity. Stable in oxidative media. FOR POWDER PRODUCTS.
SEQUION 10 NA PDR	Threshold active sequestering and dispersing agent. For household, professional and industrial cleaners. Stabilises hydrogen peroxide, peracetic acid, perborates and percarbonates.	Very good sequestering power for iron ions over the whole pH range. Good CaCO ₃ sequestering power in alkaline environment. High purity. Stable in oxidative media. FOR POWDER PRODUCTS.
SEQUION 20 H 45	Threshold active sequestering and dispersing agent. For household, professional and industrial cleaners. Prevents deposition of calcium salts on bottles during washing. Used in breweries to prevent scale. In combination with TENSAN TEM excellent corrosion inhibitor in acidic environment.	High sequestering power for CaCO ₃ , very good at pH 10-12, excellent cost-benefit-ratio, good threshold effect. Also used in electroplating to remove interfering ions.





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SEQUION 20 NA 38		High sequestering power to CaCO ₃ , very good at pH 10- 12, particularly good cost-benefit-ratio. Good threshold effect. Suitable also in electroplating to remove interfering ions.
SEQUION 30 NA 30	Threshold active sequestering and dispersing agent. For household, professional and industrial cleaners. Prevents incrustations during bottle cleaning and scales in brewery boilers.	High CaCO₃ sequestering power, very good at pH 10-12, good threshold effect. Suitable in electroplating to remove interfering ions, particularly zinc ions.
SEQUION 40 NA 32		Good sequestering capacity of Fe ions in the entire pH range and also for CaCO ₃ under basic conditions. Particularly pure quality (color, smell). Secondary corrosion inhibitor of aluminum in H ₃ PO ₄ and HCI. Stable against hydrogen peroxide.
SEQUION CLR	Threshold active sequestering and dispersing agent with pronounced soil suspensions properties. For household, professional and industrial cleaners based on oxidative media (e.g. hypochlorite).	very good solubility at pH >7. Good magnesium sequestering power. Readily





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Dispersing agents			
HYDRODIS WP 4837 BIO	A biodegradable, polymeric dispersing agent, especially suitable for automatic textile washing and dishwashing.	Phosphorus-free. Especially suitable as an incrustation inhibitor against ${\rm CaCO_3}$ and as a dispersant of dirt particles.	
POLYQUEST V-406 NEW	Phosphorus-free acrylic copolymer with dispersing properties, especially against inorganic salts such as carbonate, sulfate and phosphate salts and silicates. High-performance inhibitor for use in cleaning processes for industrial plants, reverse osmosis, oil and gas.	Ideal for limescale inhibition. 60 ppm can be sufficient to reduce CaCO ₃ deposits by dispersing them in solution. At doses above 90 ppm, the formation of CaCO ₃ precipitates can be completely avoided. Precipitation of calcium or magnesium silicate is prevented from a dosage of 200 ppm.	
Descaling			
POLYQUEST V-379 NEW	Mixture of organic salts. Dissolves $CaCO_3$ and similar salts. Non-corrosive to the skin or soft steel. Very suitable for concentrated acid cleaners.	Stronger than vinegar, glycolic, lemon, phosphoric or sulfoamic acids. Substitute for hydrochloric acid and other traditional acids. Free of phosphate and VOC.	