

CoBupHMg	PRODUCT INFORMATION SHEET Colloidal BupHers Family																	
Description	<p>CoBupHMg is a premium colloidal suspension of alkaline solids providing a long-term, slow release adjustment of the pH for acidic aquifers to optimal levels for biodegradation. CoBupHMg's patent-pending formulation consists of:</p> <ul style="list-style-type: none"> • a slow-release alkaline buffer that provides nearly 4 times the buffering capacity of CaCO₃; • an equilibrium pH of ~ 10.5 in a 10:1 dilution (DI water:CoBupHMg), minimizing the risk of overshooting the pH by buffer addition; • a negative particle surface charge to promote further distribution from the injection point; <p>CoBupHMg formulation has a negative surface charge designed to enhance distribution from the injection location.</p>																	
Chemical & Physical Properties	<table border="0"> <thead> <tr> <th style="text-align: left;">Alkaline Colloidal Suspension Concentrate: CoBupHMg</th> <th style="text-align: left;">Typical</th> </tr> </thead> <tbody> <tr> <td>Alkaline Buffer (% by wt.)</td> <td>45</td> </tr> <tr> <td>Dispersant (% by wt.)</td> <td>1</td> </tr> <tr> <td>Stabilizer (% by wt.)</td> <td>0.5</td> </tr> <tr> <td>Density (g/ml)</td> <td>1.37</td> </tr> <tr> <td>pH (Standard Units) - 10:1 dilution (DI water:CoBupHMg)</td> <td>~10</td> </tr> <tr> <td>Mean Particle Size (diameter μm)</td> <td>0.6</td> </tr> <tr> <td>OH⁻ equivalence (eq. OH⁻ per lb. CoBupHMg)</td> <td>7±0.5</td> </tr> </tbody> </table>		Alkaline Colloidal Suspension Concentrate: CoBupHMg	Typical	Alkaline Buffer (% by wt.)	45	Dispersant (% by wt.)	1	Stabilizer (% by wt.)	0.5	Density (g/ml)	1.37	pH (Standard Units) - 10:1 dilution (DI water:CoBupHMg)	~10	Mean Particle Size (diameter μm)	0.6	OH ⁻ equivalence (eq. OH ⁻ per lb. CoBupHMg)	7±0.5
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Packaging	Shipped in 5-gallon pails, 55-gallon drums or 275-gallon IBC totes.																	
Handling & Storage	<p>CoBupHMg is shipped as a ready-to-use concentrated suspension of alkaline solids that can be easily diluted with water in the field. Before use, apply generous agitation to ensure product is evenly mixed. CoBupHMg has a low viscosity and is amenable to pumping with commonly available pumps. Dilution ratios for CoBupHMg commonly range from 1:1 to 4:1 (water: CoBupHMg) depending on site conditions. CoBupHMg injections should be followed with additional chase water to maximize distribution.</p> <p>For best performance, use CoBupHMg within 60 days of delivery and store at a temperature of 40°F (4°C) to 100°F (38°C).</p>																	

