

AquaBupH	PRODUCT INFORMATION SHEET Colloidal BupHers Family																			
Description	<p>AquaBupH is a premium emulsified oil product that combines the proven EOS® technology with a slow release pH buffer to adjust the pH of acidic aquifers to optimal levels for biodegradation. As with other emulsified oil products, AquaBupH is designed to enhance anaerobic bioremediation of chlorinated solvents, perchlorate, energetics, acid mine drainage and other recalcitrant chemicals in contaminated groundwater. AquaBupH can also be used to reduce redox sensitive metals and radionuclides. AquaBupH'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 ~ 9, eliminating the risk of overshooting the pH by buffer addition; • an easily biodegradable soluble substrate for rapid onset of anaerobic conditions; and • a slowly biodegradable substrate to support long-term contaminant reduction. <p>Made in the USA with US farmed soybean oil.</p>																			
Chemical & Physical Properties	<table border="0"> <thead> <tr> <th data-bbox="387 927 1101 963">Oil Emulsion Concentrate: AquaBupH</th> <th data-bbox="1101 927 1500 963">Typical</th> </tr> </thead> <tbody> <tr> <td data-bbox="387 963 1101 996">Refined and Bleached US Soybean Oil (% by wt.)</td> <td data-bbox="1101 963 1500 996">39.7</td> </tr> <tr> <td data-bbox="387 996 1101 1030">Rapidly Biodegradable Soluble Substrate (% by wt.)</td> <td data-bbox="1101 996 1500 1030">4</td> </tr> <tr> <td data-bbox="387 1030 1101 1064">Other Organics (emulsifiers, food additives, etc.) (% by wt.)</td> <td data-bbox="1101 1030 1500 1064">7</td> </tr> <tr> <td data-bbox="387 1064 1101 1097">Alkaline Buffer (% by wt.)</td> <td data-bbox="1101 1064 1500 1097">10 - 15</td> </tr> <tr> <td data-bbox="387 1097 1101 1131">Specific Gravity</td> <td data-bbox="1101 1097 1500 1131">1.07 - 1.09</td> </tr> <tr> <td data-bbox="387 1131 1101 1164">pH (Standard Units)</td> <td data-bbox="1101 1131 1500 1164">9</td> </tr> <tr> <td data-bbox="387 1164 1101 1198">Organic Carbon (% by wt.)</td> <td data-bbox="1101 1164 1500 1198">51</td> </tr> <tr> <td data-bbox="387 1198 1101 1232">Mass of Hydrogen Produced (lbs. H₂ per lb. AquaBupH)</td> <td data-bbox="1101 1198 1500 1232">0.17</td> </tr> </tbody> </table>		Oil Emulsion Concentrate: AquaBupH	Typical	Refined and Bleached US Soybean Oil (% by wt.)	39.7	Rapidly Biodegradable Soluble Substrate (% by wt.)	4	Other Organics (emulsifiers, food additives, etc.) (% by wt.)	7	Alkaline Buffer (% by wt.)	10 - 15	Specific Gravity	1.07 - 1.09	pH (Standard Units)	9	Organic Carbon (% by wt.)	51	Mass of Hydrogen Produced (lbs. H ₂ per lb. AquaBupH)	0.17
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Packaging	Shipped in 55-gallon drums, 275-gallon IBC totes or bulk tankers (40,000 lbs.)																			
Handling & Storage	<p>AquaBupH is shipped as a ready-to-use concentrate that can be easily diluted with water in the field. No complicated field mixing procedures are required – simply mix with water. AquaBupH has a low viscosity and is amenable to pumping with commonly available pumps. Dilution ratios for AquaBupH commonly range from 1:1 to 4:1 (water: AquaBupH) depending on site conditions. AquaBupH injections should be followed with additional chase water to maximize distribution of AquaBupH into the formation.</p> <p>For best performance, use AquaBupH within 30 days of delivery and store at a temperature of 40°F (4°C) to 100°F (38°C).</p>																			

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