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NATURAL,

SCIENCE-DRIVEN SOLUTIONS

AquaBupH PRODUCT INFORMATION

Printer Friendly Version

AquaBupH

Colloidal BupHers Family

Description

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:

- A slow-release alkaline buffer that provides nearly 4 times the buffering capacity of CaCO_3 ;

- 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.

Made in the USA with US farmed soybean oil.

Chemical and Physical Properties

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

Packaging

Shipped in 55-gallon drums, 275-gallon IBC totes or bulk tankers (40,000 lbs.)

Handling & Storage

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.

For best performance, use **AquaBupH** within 30 days of delivery and store at a temperature between 40°F (4°C) to 100°F (38°C).

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