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NATURAL,

# SCIENCE-DRIVEN SOLUTIONS

## AquaBupH PRODUCT INFORMATION

Printer Friendly Version



# **Colloidal BupHers Family**

### **Description**

**AquaBupH** is a premium emulsified oil product that combines the proven **EOS**<sup>®</sup> 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<sub>3</sub>;

- An equilibrium pH of  $\sim$ 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**

Refined and Bleached US Soybean Oil (% by wt.)  Rapidly Biodegradable Soluble Substrate (% by wt.)  Other Organics (emulsifiers, food additives, etc.) (% by wt.)	39.7	
Other Organics (emulsifiers food additives etc.) (% by wt.)	4	
Careful Organization, root additives, etc) (70 b) wey	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 <sub>2</sub> per lb. <b>AquaBupH</b> )	0.17	

# **Packaging**

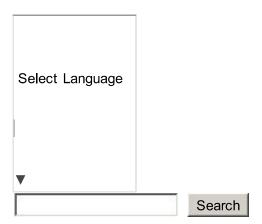
Shipped in 55-gallon drums, 275-gallon IBC totes or bulk tankers (40,000 lbs.)

### **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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### **Upcoming Conferences & Trade Shows – Mark Your Calendars!**

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EOS Remediation, LLC is pleased to present the final webinar in the 2012 - 2013 [...]

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### **Webinars**

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Next Webinar: July 10, 2013 - 12:00PM (EDT) Details Here!>>

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