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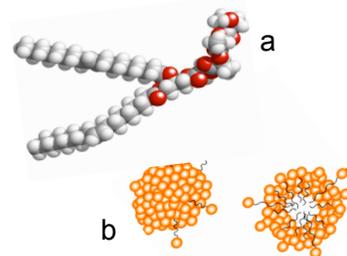
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***In-Situ* Bioremediation of Chlorinated Groundwater Contaminants Becomes More Affordable**

New technology from RegenesiS, 3-D Microemulsion™, achieves superior aquifer penetration using less substrate product and fewer injection points

SAN CLEMENTE, California, October __, 2007 — RegenesiS Bioremediation Products, a leading developer of advanced groundwater protection products, has introduced a revolutionary in-situ technology, **3-D Microemulsion™** or **3DMe™** (pat. pending), specifically designed to achieve rapid and sustained removal of chlorinated contaminants from large volumes of soil and groundwater at significantly reduced cost.

Chlorinated compounds such as tetrachloroethene (PCE) and trichloroethene (TCE) now contaminate hundreds of sites due to their widespread use for dry-cleaning and as degreasers in commercial and industrial operations. These chemicals and their breakdown products are notoriously hard to treat once they have migrated into groundwater aquifers, but in many cases they can be degraded effectively using enhanced in-situ anaerobic bioremediation. RegenesiS' patented HRC® (Hydrogen Release Compound) bioremediation technology, introduced in 1999, has been used successfully on over a thousand such sites worldwide. 3DMe builds on that success by reducing the cost of treatment while greatly increasing the volume of contaminated subsurface that can be treated with a single injection.



For typical high-volume application 3-DMe is thinned with hot water (left), then further diluted to a highly stable micro-emulsion (center) in a portable tank equipped with a high-shear centrifugal pump. Delivery into the subsurface is effected by pumping into an existing well (right) or by using standard direct-push injection equipment. Unique 3-DME molecule (a) is designed to form micelles (b) which are mobile in groundwater, enhancing distribution throughout impacted soil and groundwater after injection.

“3DMe is a revolutionary new molecule that incorporates HRC’s patented time-release properties and adds important new features,” explains Bob Kelley, RegenesiS’ VP for Research & Development. “It produces a long-term sequential release of material needed by chlorine-reducing microbes, starting immediately and continuing for up to five years or more. It also has a unique self-propagating capability that distributes the product widely into the subsurface pore spaces and increases contact with the contaminants for unmatched enhanced bioremediation performance.”

[MORE]

Regenesis cuts costs for *in-situ* chlorinated contaminant bioremediation, p. 2

3DMe is delivered in concentrated form to reduce shipping costs, then mixed with a specified volume of water and emulsified with standard water trailer/pump apparatus to form a thin, easily pumped, environmentally benign suspension. The diluted suspension is typically injected into the subsurface in high volumes with direct-push equipment.

The unique molecule incorporates three electron donors—two highly efficient forms of lactic acid (polylactate) and certain fatty acid moieties—which are released when injected into contaminated soil and groundwater. The lactic acid is fermented more rapidly while the fatty acids are fermented more gradually. This variable-rate fermentation provides both an immediate and a long-term, controlled-release supply of hydrogen, which is used by certain types of anaerobic subsurface microbes to strip chlorine molecules from the contaminants, reducing them (reductive dechlorination) to innocuous end-products such as ethane and ethane.

The 3DMe molecule is also designed to form tiny (.01 to .05 micron) spherical aggregations called micelles, which spread outward a short distance from the injection point until they are adsorbed to the aquifer matrix. Then are re-dissolved by groundwater, transported and re-adsorbed in a process that repeats until the supply is exhausted. This self-distributing mechanism achieves much more effective distribution across contaminated plumes than was ever possible before.

“With 3DMe, Regenesis is offering the most advanced hydrogen releasing technology available today, at a price point equal to that of lesser performing simple commodity products,” said Kelley. “The combination of wide dispersion and extremely long-term action make 3DMe the most efficient and cost-effective in-situ remediation method for a long list of contaminants, including industrial degreasers such as PCE, TCA and their breakdown products, chlorofluorocarbons, carbon tetrachloride, chloroform, methylene chloride, and many types of pesticides, explosives and dyes.”

San Clemente, CA-based Regenesis has been advancing the state of the art in the environmental industry since 1994 with new and innovative technologies that significantly reduce the cost, time and difficulty of restoring contaminated soil and groundwater. Regenesis' Oxygen Release Compound (ORC®) and Hydrogen Release Compound (HRC®) have been used successfully at more than 14,000 sites worldwide. These and other products, including the RegenOx™ in situ chemical oxidation system; HRC-X™, for long-term treatment of residual source areas and NAPLs; MRC®, for in-situ removal of dissolved metals (hexavalent chromium) in groundwater; and Bio-Dechlor INOCULUM™, a bioaugmentation culture, have made Regenesis the world leader in advanced in-situ technologies for protecting groundwater resources. For further information visit Regenesis online (www.regenesis.com) or contact Marketing Director Bryan W. Vigue (949-366-8000, x122; BVigue@Regenesis.com). Detailed information about 3-D Microemulsion™ is available online at <http://regenesis.com/products/enhAna/hrcadv>.

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