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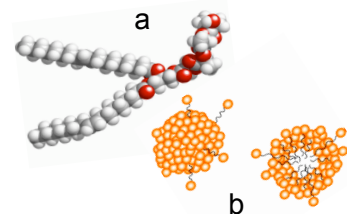
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REGENESIS Granted Patent for Microemulsion Bioremediation Product 3DMe®

The unique 3DMe molecular structure and microemulsion promotes wide-area transport in aquifer systems, requiring less substrate and fewer injection points for effective contaminant treatment.

SAN CLEMENTE, CA, September 14, 2010 — **REGENESIS**, a leading innovator of advanced, cost-effective groundwater and soil remediation technologies, was recently granted U.S. Patent 7,667,062 for **3-D Microemulsion (3DMe®)**, a proven groundwater remediation technology specifically designed to penetrate and treat aquifer systems unlike any other anaerobic bioremediation material on the market today. Other related U.S. and international patents are currently pending. The compelling chemistry behind 3DMe provides wide-area subsurface distribution characteristics coupled with sustained in-situ biological degradation of chlorinated contaminants. In addition, patented 3DMe® is a completely new molecule with a novel structure that incorporates three separate and highly efficient electron donors — free lactic acid, controlled-release lactic acid, and long-release fatty acids — that promote biodegradation in the subsurface for up to 3-5 years on a single application. Enhanced anaerobic bioremediation using 3DMe adds hydrogen (an electron donor) to groundwater in order to increase the number and activity of anaerobic microbes that naturally biodegrade many contaminants to ethane, ethene and other innocuous end products.



For typical high-volume application 3DMe is thinned with hot water, then further diluted to a highly stable microemulsion (left). 3DMe can be pumped into the subsurface through an existing well (center) or injected with standard direct-push equipment (right). The patented 3DMe molecule (a) is designed to form micelles (b), which are highly mobile in groundwater, enhancing its distribution throughout impacted soil and groundwater.

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REGENESIS Granted Patent for Microemulsion Bioremediation Product 3DMe®, p.2

Introduced to the market in 2008, to date 3DMe has been applied successfully on close to 300 sites worldwide. Delivered as a concentrate, 3DMe is mixed with water to form a dilute, easily pumped microemulsion with a high hydrophilic/lipophilic balance that allows the material to move rapidly through a contaminant plume. It is typically placed into the subsurface by direct-push injection or via permanent wells. Once emplaced, the 3DMe suspension moves out into aquifer pore spaces via a unique and highly efficient micellar transport mechanism, eventually coating virtually all available surfaces. This attribute offers increased spacing between injection points, leading to increased efficiency in the form of fewer injection points and less time spent in the field.

3DMe's combination of wide-area dispersion and long-term electron donor supply makes it one of the most efficient and cost-effective in-situ remediation methods for the treatment of a long list of chlorinated contaminants, including widely used industrial degreasers such as perchloroethylene (PCE), trichloroethylene (TCE), dichloroethylene (DCE), vinyl chloride (VC), trichloroethane (TCA), chlorofluorocarbons, carbon tetrachloride, chloroform and methylene chloride, and many types of pesticides, explosives and dyes. 3DMe has been used to treat most of these contaminant types at a range of project sites including, among others, manufacturing facilities, dry cleaners, military bases, industrial complexes, brownfield redevelopments and metal plating operations.

More recently 3DMe has been the focus of a 20-site review seeking to ensure that application of 3DMe will have little or no detrimental effect on an aquifer's groundwater pH. The study can be found at <http://www.regenesis.com/regenesis-resource-center/case-studies/cs-detail.aspx?ID=140>.

San Clemente, CA-based REGENESIS (www.regenesis.com) has been a recognized leader within the environmental industry since 1994, with proven, innovative environmental technologies that significantly reduce the cost, time and difficulty of restoring contaminated soil and groundwater. Regenesis products have been applied on approximately 16,000 soil and groundwater cleanup projects worldwide by a range of leading environmental consulting firms. In the last several years, Regenesis has expanded its capabilities by moving into the vapor intrusion mitigation market through a new division called Land Science Technologies. For more information visit the Regenesis website at www.regenesis.com or the Land Science Technologies website at www.landsciencetech.com. Alternatively, you can contact Bryan Vigue, Vice-President of Marketing at bvigue@regenesis.com or 949-366-8000, x122.

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