

News Release

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Adventus Americas product successful for aerobic bioremediation of soil, sediment, and groundwater

Stimulation of aerobic biodegradation of groundwater contaminants through controlled-release oxygen and nutrient delivery

BLOOMINGDALE, Illinois, USA (April xx, 2005) – Adventus Americas Inc. (AAI) has announced the implementation of their proprietary EHC-O™ product, proven to be highly successful in removing a wide range of contaminants from both soil and groundwater environments. This latest-generation of remediation biotechnology is an integrated source of slow-release oxygen plus major-, minor- and micro-nutrients and a pH buffering agent. This unique combination of materials facilitates the aerobic bioremediation of environments impacted by various organic and inorganic compounds. For organic constituents amenable to aerobic biodegradation processes (e.g., petroleum hydrocarbons, certain pesticides / herbicides), EHC-O™ has been proven to significantly stimulate the catabolic activity of the indigenous microflora, thereby accelerating the rate of constituent removal.

Other oxygen-releasing products are available, however, significant cost savings are realized through the use of EHC-O due to its lower price and greater effectiveness. Table 1 provides a price and performance comparison with other currently available market offerings.

Table 1. Comparison of price and performance of EHC-O™ versus competitive oxygen releasing products

Product Description	Price (\$US/lb)	lb of Oxygen Delivered per 100 lb	Nutrients in Product	Buffering Capacity in Product
EHC-O™	4.00 to 5.00	2.5	Yes	Yes
Calcium-based; standard or "advanced"	7.00 to 8.00	2.0	No	No
Magnesium-based Standard or "advanced"	7.50 to 11.00	1.0	No	No

The product is supplied in 30 or 35 lb pails, as a powder, which can be mixed with soil or slurried in water. Installation techniques vary widely depending on the application. For example, the powder can be mixed with soil and placed at the bottom of an excavation where prior soil removal had been conducted. A slurry can be made and the mixture can be injected into the subsurface using techniques such as direct injection through Geoprobe rods or hydraulic fracturing. The powder is fine enough to permit injection of the slurry through well screens.

"It is common knowledge that indigenous microorganisms will readily biodegrade petroleum hydrocarbons if the physicochemical conditions are favorable. However, in many cases, the natural rate of biodegradation is usually no scientific barrier to the use of EHC-O™. For information on EHC™, please contact Jim Mueller, Ph.D., Adventus Americas Inc., 109 Fairfield Way, Suite 207, Bloomington, IL 60108, (630) 295-8661. Some inorganic fertilizers can be used in conjunction with the intelligent use of EHC-O™ to enhance the bioremediation process.

For information on EHC™, please contact

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provides both of these materials at a value-for-the dollar basis that is a fraction of that offered by competing sources of solid oxygen release compounds.”

EHC-O™ is part of The Adventus Group’s EHC™ brand umbrella, a family of latest generation bioremediation products used for the *in situ* treatment of groundwater and saturated soil impacted by heavy metals and persistent organic compounds such as chlorinated solvents, pesticides and energetics. The reductive EHC™ technology is a modification of their DARAMEND® technology, which has been successfully used since 1992 to treat more than 600,000 tons of similarly contaminated soil, sediment and solid wastes.

About The Adventus Group

Adventus Americas Inc. (AAI) is an environmental services company that provides various remediation biotechnologies including those exclusive to our sister companies, Adventus Remediation Technologies (ART) and EnviroMetal Technologies, Inc. (ETI). The groups’ proprietary technologies include DARAMEND® and TERRAMEND™ for treatment of soil and sediment, AQUAMEND® for wastewater, and EHC™ technologies and mGCW systems for *in situ* groundwater treatment. ETI is the world leader in applications of permeable reactive barrier (PRB) technology for the remediation of contaminated groundwater, with experience at over 125 sites in United States, Canada, Europe, Japan and Australia. Both EHC™ and DARAMEND® are the subjects of numerous patents.

The Adventus network includes field offices in Colorado, Connecticut, Illinois, New Jersey, and Ontario, Canada, including an expanding network of international licensees. Licensee inquiries are welcome. For more information on The Adventus Group, call (888) 295-8661 or visit the company's Web sites at www.adventus.us or <http://www.eti.ca>