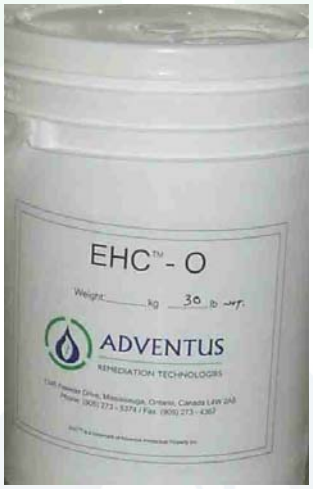
EHC – O™ Bioremediation Technology

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



EHC-O is an integrated source of slow-release oxygen, major-, minor-, and micro-nutrients, and a pH buffering agent. This unique combination of materials facilitates the aerobic bioremediation of soils, sediment or groundwater 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 significantly stimulates the catabolic activity of the indigenous microflora, thereby accelerating the rate of contaminant removal.

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

Table 1. Comparison of price and performance of EHC-O versus market-leading 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	7.00 to 8.00	2.0	No	No
Magnesium-based	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.

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