



YOUR NATURAL SOLUTIONS
Patented Methods for *In Situ* Bioremediation

Product Information Sheet
EAS™
Electron Acceptor Solution

<p>Description & Use:</p>	<p>Sulfate reduction and methanogenesis appear to be the dominant natural degradation processes at most sites (Wiedemeier et al., 1999). A BP – EPA study on the median consumptions of electron acceptors at 74 sites concluded that most hydrocarbon plumes are anaerobic and depleted of sulfate. Based on a solid body of published scientific evidence, adding electron acceptors (EAS™, U.S. Patent # 7,138,060) to groundwater will aid in increased degradation.</p> <p>The addition of EAS™ will stimulate biodegradation by providing a soluble, readily available electron acceptor. In the presence of elevated SO_4^{-2}, anaerobic groundwater bacteria use the petroleum-hydrocarbons for carbon and energy while mineralizing the hydrocarbons to CO_2 and H_2O. In addition, SO_4^{-2} reduction consumes protons increasing the pH and enhancing methanogenesis. The EAS Technology simply enhances the environmental conditions that exist within a contaminant plume by replenishing a natural groundwater compound that the bacteria require to degrade the contaminants</p> <p>In order to evaluate your site-specific conditions, EOS Remediation suggests site-specific evaluation of the groundwater geochemistry to ensure EAS™ application success is maximized. Upon request, a protocol with suggested sampling approaches and analyses is available for interested parties' review.</p>
<p>Applications</p>	<p>Back-lighting/Excavations—Spray into excavation or trench that penetrates the water table.</p> <p>Injecting EAS – Inject via injection point or through conventional drilling or Geoprobe® rod under zero to low pressure. The screen should bracket the water table with 3-4 feet above the water table and 1-2 feet below the water table.</p> <p>Surface Application-EAS may be applied to unpaved permeable surface areas (such as grass or gravel areas) for infiltration to the water table.</p>
<p>Packaging:</p>	<p>EAS™ is shipped in 55-gallon drums, 275-gallons totes or tanker truck.</p>
<p>Storage & Handling:</p>	<p>Store EAS™ indoors and protect from exposure to temperature extremes (<32°F or > 120° F). EAS™ will freeze at –32 F. Freezing does not affect product quality. Workers should use eye protection and prevent skin contact. Consult the MSDS for additional information before using EAS™. Clean up spilled product promptly and dispose of in accordance with all regulations. For best performance, use within 180 days of delivery.</p>

NOTICE

The information contained herein is, to the best of our knowledge and belief, accurate. Any recommendations or suggestions made are without warranty or guarantee of results since conditions of handling and of use are beyond our control. We, therefore, assume no liability for loss or damage incurred by following these suggestions. EOS Remediation warrants only that this product will meet the specifications set forth, any other representation or warranty, either expressed or implied, is specifically disclaimed including warranties of fitness for a particular purpose and of merchantability. EOS Remediation's only obligation shall be to replace such quantity of the product proved to be defective before using. User shall determine the suitability of the product for user's intended application and user assumes all risk and liability whatsoever in connection therewith. EOS Remediation shall not be liable in tort, contract or un-

