

NEW & IMPROVED

EOS_{PRO}

The best EVO just got better: EOS_{PRO}.



Emulsified vegetable oil (EVO) enriched to optimize anaerobic bioremediation of chlorinated solvents and other recalcitrant chemicals in contaminated groundwater.



**USDA
CERTIFIED
BIOBASED
PRODUCT**
PRODUCT 95%

Product Advantages

- New and improved nutrient package for optimal *Dehalococcoides (Dhc) mccartyi* growth
- Slow and fast release substrates
- Engineered for effective transport
- Third party validated
- Food-grade and USDA certified
- 74% fermentable carbon
- Regulatory acceptance



**Experience you can rely on,
Products you can trust™**



Description



EOS_{PRO} is a nutrient-enriched, DoD-validated, emulsified vegetable oil (EVO). EOS_{PRO} is engineered to quickly stimulate microbial activity while providing long-term nourishment to enhance anaerobic bioremediation of chlorinated solvents, nitrates, perchlorate, energetics, acid mine drainage, and other recalcitrant chemicals in contaminated groundwater. EOS_{PRO} can also be used to reduce redox sensitive metals and radionuclides. The negative surface charges on the droplets combined with small droplet size promote effective transport in the subsurface.

EOS_{PRO} benefits include:

- New and improved nutrient package for optimal *Dehalococcoides (Dhc) mccartyi* growth
- Rapidly-biodegradable substrates to “jump start” bacterial growth
- Slow release biodegradable substrates to promote long-term biological activity
- Engineered for effective transport in the subsurface
 - Small oil droplet size
 - Negative surface charge
- Extensive third-party validation

EOS_{PRO} incorporates the patented EOS[®] technologies that clients have trusted for more than two decades. Domestic supply made in the USA with US farmed soybeans.

Chemical & Physical Properties

<u>Oil Emulsion Concentrate:</u> EOS _{PRO}	<u>Typical</u>
Refined and Bleached US Soybean Oil (% by wt.)	59.8
Rapidly Biodegradable Soluble Substrate (% by wt.)	4
Other Organics (emulsifiers, nutrients, etc.) (% by wt.)	10
Specific Gravity	0.96 - 0.98
pH (Standard Units)	6 - 7
Median Oil Droplet Size (microns)	1.0
Organic Carbon (% by wt.)	74

Packaging

Shipped in 55-gallon drums, 275-gallon IBC totes or bulk tankers (40,000 lbs.)

Handling & Storage

EOS_{PRO} is shipped as a ready-to-use concentrated emulsion that can be diluted with water in the field to prepare a high quality suspension for easy injection. EOS_{PRO} has a low viscosity and can be distributed with commonly available pumps or by continuous metering with a diluter (e.g., Dosatron™). Dilution ratios for EOS_{PRO} typically range from 4:1 to 20:1 (water: EOS_{PRO}) depending on site conditions. EOS_{PRO} injections should be followed with additional chase water to maximize distribution of EOS_{PRO} into the formation.

EOS_{PRO} can be injected with EOS_{QR}, CoBupH or BAC-9. Call us for more details.

For best performance, use EOS_{PRO} as shipped, within 60 days of delivery and store at a temperature between 40°F (4°C) to 100°F (38°C).