



Description

EOS_{ZVI} is a patent-pending water-mixable vegetable oil based organic substrate with the highest concentration of micron-scale zero valent iron (ZVI) available. This unique product combines the proven reactivity of ZVI with a long lasting source of electron donor for enhanced *in situ* anaerobic, abiotic, and biotic remediation. EOS_{ZVI} is shipped as a waterless concentrate; simply add water in the field to instantly create an injection-ready solution.

EOS_{ZVI} benefits:

- Ideal for DNAPL sites
- Quickly reduces ORP of aquifers
- Highest ratio of ZVI to carbon on the market; approximately 1:1
- Employs the proven EOS[®] technology
- Larger droplet size for greater oil retention
- Excellent for barrier and fractured rock applications
- Can be used with other EOS[®] products
- Engineered iron particle size average 3-4µm

Domestic supply made in the USA with US farmed soybeans.

Chemical & Physical Properties

Oil Concentrate: EOS _{ZVI}	Typical
Micron-scale Engineered Iron (ZVI) (% by wt.)	50
Stabilizer (% by wt.)	2
Refined and Bleached US Soybean Oil (% by wt.)	41
Slow Release Organics (% by wt.)	7
Specific Gravity	~1.6
Viscosity (cP)	2,350
Organic Carbon (% by wt.)	48

Packaging

Shipped in 5-gallon pails (net 50 lbs. each), 55-gallon drums or 275-gallon IBC totes.

Handling & Storage

EOS_{ZVI} is shipped as concentrated oil and iron slurry that is diluted with water in the field to prepare a solution for easy injection. EOS_{ZVI} can be distributed with commonly available pumps. Dilution ratios for EOS_{ZVI} typically range from 1:1 to 5:1 (water: EOS_{ZVI}) depending on site conditions. EOS_{ZVI} injections should be followed with additional chase water to maximize distribution of EOS_{ZVI} into the formation.

EOS_{ZVI} as shipped, has a shelf-life of ≥ 2 years depending on storage conditions.

EOS_{ZVI}

Water-mixable oil and micro-zero valent iron (ZVI) slurry formulation to enhance anaerobic reductive dechlorination



Water-mixable vegetable oil based substrate containing 50% micron-scale engineered iron, soy bean oil, surfactant and stabilizer, providing a long-lasting source for anaerobic remediation of DNAPL

Product Advantages

- Waterless concentrate, easy to use formulation
- Effective on DNAPL
- Abiotic and biotic pathways for recalcitrant contaminants
- Highest iron to carbon ratio on the market; greater than 1:1



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