



EOS Asia Remediation Co., Ltd.

Experience you can rely on, Products you can trust

EOS _{ZVI}		PRODUCT INFORMATION SHEET Emulsified Oils Family	
Description	<p>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 <i>in situ</i> 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.</p> <p>EOS_{ZVI} benefits:</p> <ul style="list-style-type: none"> • 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 • Carbonyl iron particle size average 3~4µm 		
Chemical & Physical Properties	Oil Concentrate: EOS_{ZVI}		Typical
	Micron-scale Carbonyl 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	<p>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.</p> <p>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.</p>		
Storage	EOS _{ZVI} as shipped, has a shelf-life of ≥ 2 years depending on storage conditions.		