

EOS PRO	PRODUCT INFORMATION SHEET Emulsified Oils Family																			
<p>Description</p> 	<p>EOSPRO is a nutrient-enriched, DoD-validated, emulsified vegetable oil (EVO). EOSPRO 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. EOSPRO 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.</p> <p>EOSPRO benefits include:</p> <ul style="list-style-type: none"> • Vitamin B-12 and micro-nutrients • 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 <ul style="list-style-type: none"> • Small oil droplet size • Negative surface charge • Extensive third-party validation <p>EOSPRO incorporates the patented EOS® technologies that clients have trusted for more than a decade.</p>																			
<p>Chemical & Physical Properties</p>	<table border="1"> <thead> <tr> <th><u>Oil Emulsion Concentrate: EOSPRO</u></th> <th><u>Typical</u></th> </tr> </thead> <tbody> <tr> <td>Refined and Bleached US Soybean Oil (% by wt.)</td> <td>59.8</td> </tr> <tr> <td>Rapidly Biodegradable Soluble Substrate (% by wt.)</td> <td>4</td> </tr> <tr> <td>Other Organics (emulsifiers, food additives, etc.) (% by wt.)</td> <td>10</td> </tr> <tr> <td>Specific Gravity</td> <td>0.96 - 0.98</td> </tr> <tr> <td>pH (Standard Units)</td> <td>6 - 7</td> </tr> <tr> <td>Median Oil Droplet Size (microns)</td> <td>1.0</td> </tr> <tr> <td>Organic Carbon (% by wt.)</td> <td>74</td> </tr> <tr> <td>Mass of Hydrogen Produced (lbs. H₂ per lbs. EOSPRO)</td> <td>0.25</td> </tr> </tbody> </table>		<u>Oil Emulsion Concentrate: EOSPRO</u>	<u>Typical</u>	Refined and Bleached US Soybean Oil (% by wt.)	59.8	Rapidly Biodegradable Soluble Substrate (% by wt.)	4	Other Organics (emulsifiers, food additives, 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	Mass of Hydrogen Produced (lbs. H ₂ per lbs. EOSPRO)	0.25
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<p>Packaging</p>	<p>Shipped in 55-gallon drums, 275-gallon IBC totes or bulk tankers (40,000 lbs.)</p>																			
<p>Handling</p>	<p>EOSPRO 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. EOSPRO 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 EOSPRO typically range from 4:1 to 20:1 (water: EOSPRO) depending on site conditions. EOSPRO injections should be followed with additional chase water to maximize distribution of EOSPRO into the formation.</p> <p>EOSPRO can be injected with EOSQR, CoBupHMg or BAC-9. Contact us for more details.</p>																			
<p>Storage</p>	<p>For best performance, use EOSPRO as shipped, within 60 days of delivery and store at a temperature between 4°C to 38°C.</p>																			