

JRW BIOREMEDIATION_{LLC}



Description

LactOil™ soy microemulsion is a stable, self-emulsifying, blended substrate for the remediation of chlorinated solvents, metals and perchlorates. LactOil™ is designed to combine the hydrogen donor properties of readily soluble carbon substrates with enhanced longevity of emulsified vegetable oil products. LactOil™'s true microemulsion formulation provides extended in situ product stability. LactOil™ is delivered as a concentrated, water-in-oil reverse microemulsion with a high organic content and low viscosity. LactOil™ contains fermentable lactate in place of water providing a total of 80% fermentable material in the raw product.

LactOil™ self emulsifies in water over a wide range of concentrations with minimal mixing or shear force. Particle size studies show that the dilute LactOil™ soy microemulsion is predominantly less than 1.0 micron. Studies show LactOil™ soy microemulsion to have a Zeta potential of about -68 mV at neutral pH thereby increasing the product's stability when compared with standard emulsified oil products.

Typical Properties

	<u>LactOil™</u>
Appearance	Clear Brown Liquid
Viscosity, cP at 70°F	25
Specific Gravity (20°C)	0.986
pH	Buffered to 6.5
Moisture, % wt/wt	20
Product Stability	up to 1 year

Applications

Lower concentrations are ideal for the remediation of dissolved phase contaminants over large areas. Higher concentrations of LactOil™ are ideal for barrier applications in slower moving aquifers or for the treatment of DNAPL.

Packaging

450 lb. drums.

Storage

Store unopened at room temperature.

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