

ACCELERITE™ BIOREMEDIATION NUTRIENT

Description

JRW Bioremediation's ACCELERITE™ bioremediation nutrient is a metabolic supplement for enhancing the kinetics and efficiency of anaerobic microbial systems specifically related to reductive dechlorination. Solid ACCELERITE™ is a formulation of water soluble metabolites including various vitamins including B-vitamins and yeast factors impregnated on a biodegradable solid matrix. Liquid ACCELERITE™ is low-solids formulation that can be readily mixed with liquid substrates. Lab studies show that ACCELERITE™ preferentially promotes the production of propionate over acetate thereby increasing metabolic kinetics and dechlorination efficiencies.

Typical Properties

	<u>Solid</u>	<u>Liquid</u>
Moisture, % wt/wt	< 11	< 75
Protein, % wt/wt	> 25	> 7
Fat, % wt/wt	> 0.1	> 0.5
Ash, % wt/wt	< 20	< 0.5

Applications

ACCELERITE™ bioremediation nutrient is used to increase the kinetics and increase the efficiency of electron donor utilization. The increase in kinetics and efficiency decreases the remediation time and reduces the amount of substrate required thereby more than off setting the cost of the material and application. Studies have shown that ACCELERITE™ increases the degradation efficiency of WILCLEAR® sodium lactate during the bioremediation of tetrachloroethene to ethene by up to 36%. ACCELERITE™ bioremediation nutrient can be used with a wide variety of substrates including potassium lactate, ethyl lactate, whey, emulsified vegetable oil, neat oil, and purpose-designed substrates. Solid ACCELERITE™ is applied at a rate of 2.2% of the fermentable electron donor mass. Liquid ACCELERITE™ is applied at a rate of 3.1% of the fermentable electron donor mass.

Packaging

ACCELERITE™ bioremediation nutrient is provided as a dry powder packaged in 55 pound bags or as a liquid in 5-gallon and 55-gallon drums.

Storage

Store solid material in a temperature-controlled area protected from moisture. Contact JRW for storage of liquid ACCELERITE™.

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