



innovative solutions for groundwater treatment

MSDS: TSI DCE MICROBES

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Material Name: DHC microbial consortium (TSI-DC)

Date Prepared: 01-01-2008 CAS #: N/A (Not Applicable)

Prepared By: Dr. Mike Lee Formula #: N/A

Material Description: Non-hazardous, naturally occurring non-altered anaerobic microbes and enzymes in a water-based medium.

SECTION 2 – INGREDIENTS

Components	%	OSHA PEL	ACG 1 H TLV	OTHER LIMITS
Non-Hazardous Ingredients	100	N/A	N/A	N/A

SECTION 3 – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 100°C (water) Specific Gravity (H₂O = 1): 0.9 - 1

Vapor Pressure @ 25°C: 24 mm Hg (H₂O) Melting Point: 0°C (water)

Vapor Density: N/A Evaporation Rate (H₂O = 1): 0.9 – 1

Solubility in Water: Soluble pH: 6.0 - 8.0

Water Reactive: No

Appearance and Odor: Murky, yellow water. Musty odor.

TSI DC Bioaugmentation Culture™ is an enriched natural bacteria culture that contains greater than 10¹⁰ Dehalococcoides/L for bioaugmentation. This culture dechlorinates tetrachloroethene (PCE) and trichloroethene (TCE) to the non-toxic product ethene. The culture also biodegrades 1,1,1-trichloroethane to 1,1-dichloroethene, 1,1-dichloroethane, and chloroethane. It also can biodegrade carbon tetrachloride and chloroform to methylene chloride and innocuous products. It can be used at sites where bacteria capable of complete reductive dechlorination are not present or there is a need to decrease the remediation time frame.