

AquiFix Technical Description

AquiFix™ is an organic remediation amendment engineered to promote in situ anaerobic biodegradation of toxic groundwater contaminants. AquiFix contains an engineered mixture of fast and slow-release organic compounds. The slow-release component is composed of fine, solid-phase, plant-based particles (<0.5 µm) suspended in water using polymer dispersion chemistry. The rapid release organic compound is dissolved within the aqueous matrix.

Once applied to the subsurface, AquiFix binds to the soil matrix and the soluble organic donor quickly establishes reducing conditions. The solid phase component slowly degrades to produce volatile fatty acids and molecular hydrogen that sustain long-term anaerobic bioremediation.

AquiFix is fully compatible with, and does not interfere with the performance of complimentary remediation amendments, including PlumeStop® and S-MicroZVI®.

Chemical Composition

- Emulsified solid fatty acids
- Sodium lactate
- Water
- Proprietary additives

Properties

Physical State	Liquid
Form	Aqueous suspension
Colour	Cream
Odour	Slight
pH	~4.0-6.0 in a 10% Solution
Density	1 kg/L
Viscosity	10-200 cP @ 25° C

Application

AquiFix is diluted with water on site and easily applied (with PlumeStop) into the subsurface through low-pressure injections using injection wells or by direct push methods.

Storage and Handling Guidelines

Storage

- Store in original tightly closed container
- Store away from incompatible materials (see SDS)
- Store at (4°C to 35°C)
- Do not allow product to freeze or store in direct sunlight

Handling

- Avoid contact with skin and eyes
- Wear appropriate protective equipment
- Do not taste or swallow
- Observe good industrial hygiene practices
- Dispose of waste and residue in accordance with the local authority requirements

Health and Safety

The material is relatively safe to handle, but avoid contact with eyes, skin and clothing. Appropriate personal protection equipment including vinyl or rubber gloves and eyes protection are recommended when handling this product. Please review the **Safety Data Sheet (SDS)** for additional information.