HYDROGEN
RELEASE
COMPOUND

HRC-X® Technical Description

HRC-X® is a more robust and viscous version of Hydrogen Release Compound (HRC), it is designed to stimulate anaerobic biodegradation by providing an extended-release of electron donor material for periods of up to 5 years or more on a single application.

With an additional 3+ years of hydrogen releasing capability when compared to standard HRC, HRC-X is suitable for treating sites with higher dissolved- phase concentrations (including residual DNAPL) where it can be effective in driving biological mechanisms such as desorption and dissolution. HRC-X may also be instrumental in treating sites where only a single remediation treatment application is possible and there is a need to maximize the treatment longevity.

For a list of treatable contaminants with the use of HRC-X, view the Treatable Contaminants Guide.

Example of HRC-X

Chemical Composition

- Glycerol Tripolylactate- CAS #201167-72-8
- Glycerin- CAS #56-81-5
- Lactic acid- CAS #50-21-5

Properties

- pH - 3 (10% solution/water)
- Appearance – Viscous gel/liquid. Amber color
- Odor – Odorless

Storage and Handling Guidelines

Storage
Store away from incompatible materials
Store in original tightly closed container
Store in a cool, dry, well-ventilated place

Handling
Wash thoroughly after handling
Wear appropriate personal protective equipment
Wear eye/face protection
Provide adequate ventilation
Observe good industrial hygiene practices

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Applications

- Permanent injection wells
- Direct-push injection (barriers and grids)
- Recirculating wells
- Soil borings
- Excavation applications into soil or on top of bedrock

Application instructions for this product are contained in the HRC-X Application Instructions.

Health and Safety

Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Please review the HRC-X Safety Data Sheet for additional storage, usage, and handling requirements.

REGENESIS