HYDROGEN RELEASE COMPOUND

HRC Primer® Technical Description

HRC Primer® is a thinner, less viscous version of Hydrogen Release Compound (HRC) that is injected into groundwater to stimulate anaerobic biodegradation by releasing lactic acid over a period of several weeks, which is faster than standard HRC.

These rates are slower and more controlled than those of simple sugar solutions or straight lactic acid, which can be exhausted after several days. HRC Primer is typically recommended where high levels of competing electron acceptors (CEAs), primarily sulfate, exist and should be reduced to "prime" the anaerobic subsurface for a more successful, cost-effective 3-D Microemulsion, HRC or HRC-X application.

Example of HRC Primer

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

Chemical Composition

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

Properties

- pH – 2 (10% solution/water)
- Appearance – Liquid. Yellow 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
- Gravity feed into bedrock wells

Application instructions for this product are contained in the HRC Primer 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 Primer Safety Data Sheet for additional storage, usage, and handling requirements.

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