

MRC[®] Technical Description

Metals Remediation Compound (MRC[®]) removes metals such as dissolved Cr(VI) from groundwater via *in situ* immobilization (precipitation and/or sorption to soil particles). MRC consists of an organosulfur compound esterified to a carbon backbone. This organosulfur ester is embedded in a polylactate matrix, making MRC a thick, viscous liquid.

Upon injection into an aquifer, the organosulfur compound (the active metals immobilization agent) is released in a controlled manner when the ester bonds in MRC are cleaved via hydrolysis and microbial enzymatic action. Similar processes also cause MRC to release lactic acid, which provides a carbon source for naturally-occurring bacteria and creates the optimal conditions for metals immobilization by the organosulfur compound.



Example of MRC

For a list of treatable contaminants with the use of MRC, 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
- Sorbitol Cysteinate- CAS #444618-64-8

Properties

- pH - 2 (10% solution/water)
- Appearance – Viscous gel/liquid. Amber color
- Odor – Strong Amine/Sulfur

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
- Avoid contact with eyes, skin, and clothing
- Provide adequate ventilation
- Observe good industrial hygiene practices



**METALS
REMEDICATION
COMPOUND**

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Applications

- Permanent injection wells
- Direct-push injection points
- Soil mixing

Application instructions for this product are contained in the [MRC 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 [MRC Safety Data Sheet](#) for additional storage, usage, and handling requirements.



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