

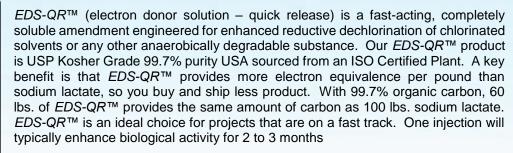
EDS-QR™

Electron Donor Solution - Quick Release



- EDS-QR™ is a soluble source of readily available organic carbon and hydrogen
- It complements other Tersus products such as EDS-ER™
- This product "jump starts" bacterial growth: ideal choice for projects on a fast track
- 60 lbs. of EDS-QRTM provides the same amount of hydrogen as 100 lbs. of sodium lactate.
- One dose typically enhances biological activity for 2-3 months

Principle



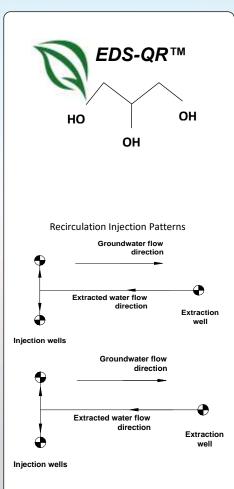
One in the aquifer, *EDS-QR™* decomposes to fatty acids and hydrogen used by organohalide respiring bacteria as they transform toxic chlorinated substances such as PCE, TCE, DCE, VC, TCA, CT, and perchlorate. *EDS-QR™* creates a reducing environment to bioremediate explosives (i.e., aromatic nitrates and energetic munitions residuals), nitrates, acids, radionuclides, select oxidized heavy metals, and other contaminants.

Advantages

- Short-lived electron donor allows fast geochemical conditioning
- Used in recirculation systems and low permeability zones
- Conforms to EPA's EPP (Environmentally Preferable Purchasing) and USDA bio-based criteria
- Made from renewable USA-grown crop-based oils
- Ideal for salt-sensitive aquifers

Field Application Design

EDS-QR[™] applications are easily tailored to meet site-specific conditions. Typical configurations include distributing EDS-QR[™] until the target zone meets 50 mg/L of TOC. Grid and barrier patterns are also common approaches, as well as applications in excavations or trenches. In these scenarios, EDS-QR[™] is typically 20% of a slow release electron donor such as EDS-ER[™], allowing rapid conditioning of the aquifer while the slow release electron donor becomes effective. EDS-QR[™]'s low viscosity allows for subsurface distribution through well-pair recirculation systems, direct-push injection points or hollow-stem augers, and it can also be pumped through existing wells. EDS-QR[™] is shipped as a ready-to-use concentrate that can be diluted with water in the field.



Product Content

Chemical Name	CAS Number	Composition (% wt.)
Glyceride oils	56-81-5	>99

Product Characteristics

Parameter	Specification
Specific Gravity	1.26 @ 25 °C
Solubility in water	miscible
Flash Point	390 °F (199 °C)
Appearance	yellowish translucid oil

Packaging Options

- 55-gallon poly drums
- 275-gallon IBC containers
- 5,000-gallon tankers

Safety

No protective equipment is necessary under normal use conditions. All ingredients consist of food or food grade additives.