

## EDS-QR

### Electron Donor Solution – Quick Release

Tersus Environmental is proud to introduce EDS-QR (electron donor solution – quick release), a fast-acting, completely soluble amendment formulated with >98% natural seed oils engineered for enhanced reductive dechlorination of chlorinated solvents or any other anaerobically degradable substance. EDS-QR is an ideal choice for projects that are on a fast track. One injection will typically enhance biological activity for 2 to 3 months.

EDS-QR is a fast-acting water-soluble electron donor formulated with >98% natural seed oils. EDS-QR is provided as water mixable electron donor.

#### Packaging Options

- 55-gallon poly drums
- 275-gallon IBC containers
- 3,000 - 5,000 gallon tankers

#### Purpose

EDS-QR is a simple, safe, low-cost solution for the bioremediation of halogenated compounds (e.g., PCE, TCE, DCE, VC, TCA, CT, etc.), perchlorate, explosives such as aromatic nitrates, energetic munitions residuals, nitrates, acids, radionuclides, select oxidized heavy metals, and other contaminants.

#### Field Application Design

EDS-QR applications are easily tailored to meet site-specific conditions. Typical configurations consist of grid and barrier patterns and application in excavations or trenches. The product's low viscosity allows subsurface distribution through direct-push injection points, hollow-stem augers or pumped through existing wells.

#### Properties

Appearance	Amber
Flash Point, °C (°F)	120 (248)
Viscosity (cSt)	53 @ 40°C
Specific Gravity	1.22 @ 25°C
Biodegradability	Readily Biodegradable
Aquatic Toxicity	Non-toxic
Freezing Point °C (°F)	< -60 (-76)* 75% Oil in 25% Water Conc.

#### Recycling

Due to cost and liability considerations, the vast majority of our clients do not ship empty containers back to Tersus. Fortunately, you can find local recycling services located throughout the United States. Their business is to collect, prepare and resell used drums.

#### Questions

If you need any assistance whatsoever, please call 919-453-5577.

#### Benefits

- Completely soluble amendment which minimizes the number of injection points for low permeability structures, reducing overall capital costs
- A simple, safe, low-cost solution for the bioremediation of halogenated straight-chain and aromatic hydrocarbons, perchlorate, explosives such as aromatic nitrates, energetic munitions residuals, nitrates, acids, radionuclides, oxidized metals, and other contaminants
- Conforms to EPA's EPP (Environmentally Preferable Purchasing) and USDA biobased criteria
- Made from renewable USA-grown crop-based oils
- Easily mixes with water for economical application

