EcoClean-GSW™: Slick Water Frac Fluid

Because clean water is a priority

Trican’s EcoClean-GSW™ is a high performance slick water fracturing fluid designed to eliminate contamination risks to geological formations, aquifers and product handlers. The EcoClean-GSW system includes additives that are non-toxic, bio-degradable or non-bioaccumulating, individually or in combination, and each will pass the stringent Microtox® test. A product or chemical that passes the Microtox® test is considered safe for drinking water, and will often meet the criteria set out in other regulatory examinations.

EcoClean-GSW™ Additives

GFR-1™ – Green Friction Reducer
GFR-1™ is an environmentally friendly, salt tolerant friction reducer designed to rapidly improve fluid flow in slick water fracturing. GFR-1 is suspended in water, making it oil and surfactant-free and more environmentally responsible. A reduction in friction pressure also leads to a reduction in the amount of horsepower (energy) required to successfully pump the fluid, which reduces costs and facilitates achieving maximum pump rate.

GBO-1™ – Green Breaker Oxidizer
GBO-1™ is an environmentally friendly solid oxidizing agent that is used to “break” both friction reducers and aqueous gels to facilitate flowback of the slick water frac fluid. GBO-1 is designed for delayed breaking reaction so it can be added directly to the fluid on-the-fly, without affecting the friction reducer’s performance. This additive is characterized by rapid biodegradability and very low toxicity.
GSI-1™ – Green Scale Inhibitor

GSI-1™ is a broad spectrum scale inhibitor that is very effective in preventing carbonate and sulfate scale precipitation in fracturing systems. Scale inhibitors are necessary due to the increased use of produced and recycled water as load fluid. In addition to scale issues caused by most produced water, co-mingling of incompatible waters can quickly result in scale precipitation. GSI-1 is designed for continuous injection during normal operations and is non-bioaccumulating, biodegradable, and compatible with most other additives.

GCS-1™ – Green Clay Stabilizer

This clay control additive is chloride free, and highly effective in preventing clay swelling and clay migration. A much greener alternative to clay control products currently used in the industry, GCS-1™ is compatible with all gels, crosslinkers and breaker systems typically utilized in fracturing fluid systems.

GFE-1™ – Green Flowback Enhancer

GFE-1™ is a biodegradable product that is used to improve the total fluid recovery or flowback from the formation after a fracturing treatment. GFE-1 will lower the treatment water’s surface tension dramatically and allow for more efficient unloading of the well, leading to enhanced overall production. This non-toxic additive is dispersible and non-reactive with other common fracturing additives.

GNE-1™ – Green Non-Emulsifier 1

GNE-1™ is a non-emulsifier surfactant that, when added to a water-based fracturing fluid, will prevent emulsions forming between the injected water and any in-situ oil or condensate that the water may contract. Additionally, GNE-1 exhibits non-emulsification tendencies in hydrocarbon gels when mixed with produced chemical alternatives, enabling it to dramatically lower the surface tension of the water, aid in the water wetting of the formations, and allow for more efficient unloading of the well. GNE-1 is comprised of 100% non-toxic ingredients and passes the Microtox® test with a very high threshold.

For more information on EcoClean-GSW and other greener products, please call Trican Well Service.