

PRODUCT DESCRIPTION

PCD-2CF is an environmentally safe, *chloride free* clay control additive. It is a liquid product designed specifically for use as a replacement for bag KCl (potassium chloride). PCD-2CF is a very effective temporary stabilizer for smectite, illite and mixed layer clay minerals that are encountered in many hydrocarbon reservoirs. PCD-2CF offers superior performance without the handling, mixing and disposal problems associated with bag KCl. The use of PCD-2CF on the fly eliminates premixing and leftover saltwater disposal problems. Because PCD-2CF is non-surface active, it does not effect wettability or cause emulsions.

Toxicity tests conducted by an independent laboratory showed PCD-2CF to be toxicologically safe. It has a low potential to accumulate in the membranes of biological organisms and was readily biodegradable in seawater.

RECOMMENDED APPLICATION

Recommended loading 0.2 to 2 ppb of fresh water, depending on mineralogy of the formation. PCD-2CF can be run on the fly or batch mixed

COMPATIBILITY

When PCD-2CF contacts an acidic material, a rapid neutralization reaction occurs liberating carbon dioxide (CO₂) gas. Hoses used to transfer PCD-2CF and storage tanks should be flushed with water if they have been in contact with an acid. PCD-2CF is compatible with most water based drilling fluids, frac fluids, crosslinkers and breakers. A compatibility test should be run with anionic viscosifiers before use.

TYPICAL PHYSICAL PROPERTIES

Form:	Liquid
Chemical Family:	Quat. Amine salt
Color:	Clear, pale green
Solubility:	Water and brines
Odor:	Slight Amine
Wt. per Gal.:	9.12 lb
Charge:	Cationic
Flash Point:	None

HANDLING/STORAGE

Keep drum tightly sealed to avoid contamination. Avoid contact with eyes, skin or clothing. Recommend use of splash goggles and rubber gloves. Refer to the Material Safety Data Sheet (MSDS) for handling and hazard data.

PACKAGING

PCD-2CF is shipped in 55 gallon drums and 330 gallon tote tanks.