

CALCIUM NITRATE

LOST CIRCULATION MATERIALS

Calcium Nitrate (EnviroFloc) is a highly soluble source of calcium ions for use as a coagulant in clear water drilling and clarification operations using settling tanks and or centrifuges. The products residual chemistry in the form of Nitrate ions makes waste streams excellent fertilizer to more actively restore vegetation on worksites after drilling is complete. In clear water applications a concentration of 400ppm is desirable to start a coagulation and flocculation reaction.

Calcium Nitrate can also be used as a calcium source in invert oil emulsions and as an accelerator for oil well cement.

PHYSICAL PROPERTIES:

Appearance: Off-white prills
Specific Gravity: 1.12
Bulk Density: 1.06 kg/m³
Flash Point: Not available

CHEMICAL PROPERTIES:

Type: Salt
Solubility: Soluble (water)
pH: 6.0 (5% solution)
Microtox: 52% @ 1.4 kg/m³
Microtox threshold: 22kg/m³

MIXING & HANDLING

Calcium Nitrate can be added through the hopper or pre-dissolved in water in the chemical barrel prior to being added. Note that in the presence of excess hydroxide concentration, ammonia gas will be liberated. Ammonia gas will irritate the nose, throat and respiratory system and can cause eye injury. It is advisable to use a dust mask and eye protection while mixing all powdered products.

Store securely away from combustible materials and reducing agents.

WHMIS: Not controlled

TDG: Not regulated

Packaging: 80 lb sack

