



## SierraLube BIO SD

### Drilling Lube Meets Intelligent Environmental Design

#### OVERVIEW:

SierraLube BIO SD reduces the friction coefficient, and thus torque and drag in demanding drilling applications. SierraLube BIO SD is a unique lubricant for oilfield drilling designed as a plant based green chemical. The renewable content of SierraLube BIO SD is over 90%. One unique feature of SierraLube BIO SD is that it is a waterless material that blends readily with oil or oil-based liquids, yet it is completely water dispersible and miscible. This allows SierraLube BIO SD to be used in almost any system. The flash point is higher than petroleum or ester-based lubricants.

#### SPECIFICATIONS:

Appearance:	Clear Yellow liquid
Emulsification:	White to Off-white
Viscosity (kinematic):	Emulsion 40 to 65
Odor:	Bland

#### Recommended Uses:

SierraLube BIO SD can be used in a broad range of oil drilling operations because of its' effectiveness and because it is stable across a broad temperature range with heavy brine conditions. Torque and drag are minimized when using SierraLube BIO SD.

#### SEE SDS FOR STORAGE, HANDLING AND IN CASE OF SPILLS

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