

Product Data Sheet

Introduction

- UBDrill-144 EBL is a naturally-occurring, ester-based lubricant derived from natural fats and oils.
- It is non-toxic to humans or the surrounding environment.
- This product has a small impact on the rheological properties of drilling fluid, and property of environmentally friendly performance.

Typical Physical Properties

Properties	Specification
Appearance	Light-Yellow liquid
Density, g/cm ³ @20°C	0.9-1.0
Kinematic viscosity @ 40°C(cst)	100Max
Pour Point, °C	<-20
Flash Point (COC) , °C	200Min
Freshwater system torque reduction percentage (1%v/v), %	85Min
Seawater system torque reduction percentage (1%v/v), %	80Min

Product features

- Reduces torque and drag issues by providing lubricity to water-based drilling operations without compromising or damaging production zones.
- Readily dispersible in any water-based drilling fluid.
- Proven results in reducing friction factors while drilling open hole.
- Helps to prevent bit-balling and differentially stuck pipe; will have no negative effects on the fluid rheology or filtration properties.
- In most cases, will improve the overall API and HTHP fluid loss behaviors of the fluid.
- Avoid use in high pH environments.
- Initially 0.5-2.0% by volume of UBDrill-144 EBL should be added directly into the mud. The product should be continually added or injected into the mud when the bit is drilling. Freshwater system recommended dosage is 1%, seawater system recommended dosage is 1.5%.

Recommended Handling

All personnel handling this material must handle it as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet.

Packaging and Storage

175kg drum/4 drums/pallet. Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles.