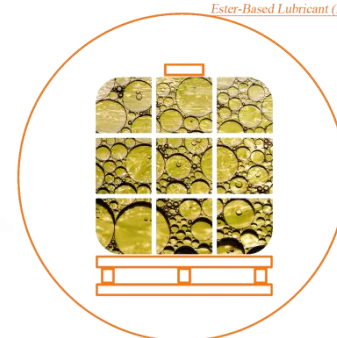


## Lubricant

Have passed the ASTM.

Ester-based lubricant (EBL) for water-based muds.

Ester-Based Lubricant (EBL)



## Product #: UBDrill-144 EBL

### 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.

### Technical Index

| Properties   | Specification       |
|--|---------------------|
| Appearance   | Light-Yellow liquid |
| Density, g/cm <sup>3</sup> @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.

For more information, Send email: [info@youzhuchem.com](mailto:info@youzhuchem.com), or call 0086 13408536218 or for information on other YouzhuCHEM products visit [youzhuchem.com](http://youzhuchem.com)