



# EZ-MUD<sup>®</sup> GOLD

Clay/Shale Stabilizer

**Description** EZ-MUD<sup>®</sup> GOLD clay and shale stabilizer provides inhibition of clay and shale formations in water-based drilling fluids without substantially increasing viscosity. EZ-MUD GOLD stabilizer, when added to a QUIK-GEL<sup>®</sup> or BORE-GEL<sup>®</sup> slurry, yields an inhibitive drilling fluid system while maintaining manageable and effective fluid properties. EZ-MUD GOLD stabilizer can be mixed easily at minimal shear thereby eliminating the need for liquid emulsions.

## Applications/Functions

*The use of EZ-MUD GOLD stabilizer aids or promotes the following:*

- Enhanced rheological properties of a low-solids drilling mud
- Clay and shale stabilization to prevent swelling and/or dispersion
- Borehole stability in water sensitive formations
- Minimized rotational torque and circulating pressure
- Enhancement of air-foam system capabilities
- Enhanced core recovery in continuous wireline coring operations

## Advantages

- NSF/ANSI Standard 60 certified
- Easy dispersion and mixing with minimal shear
- Can be used at increased concentrations to gain inhibition without producing excess viscosity
- No petroleum distillates present
- Breaks down chemically with bleach (sodium hypochlorite)
- Compatible with other Baroid drilling fluid additives when added in proper sequence
- Non-fermenting

## Typical Properties

- |                                    |                           |
|------------------------------------|---------------------------|
| • Appearance                       | White, free-flowing beads |
| • Bulk density, lb/ft <sup>3</sup> | 52                        |
| • pH ( 1% aqueous solution)        | 7.75                      |

## Recommended Treatment

- Using a Venturi Mixer, or into vortex of a high-speed stirrer, add slowly and uniformly to the entire circulating system.

**Recommended Treatment (continued)**

<b>Approximate Amounts of EZ-MUD® GOLD stabilizer Added to Water Based Fluids</b>			
<b>Drilling Application/Desired Property</b>	<b>lb/bbl</b>	<b>lbs/100 gal</b>	<b>kg/m<sup>3</sup></b>
<b><i>Added to fresh water (to formulate a clay-free drilling fluid)</i></b>			
<ul style="list-style-type: none"> <li>To help stabilize water sensitive formation</li> <li>To help reduce torque and lower circulating pressure</li> </ul>	0.25 - 1.0	0.6 – 2.4	0.7 – 2.9
<b><i>Added to QUIK-GEL® or BORE-GEL® drilling fluids</i></b>			
<ul style="list-style-type: none"> <li>To help retard reactive shale and clay and enhance lubricity</li> </ul>	0.1 - 0.3	0.25 – 0.75	0.3 – 0.9
<b><i>Added to injection liquid in air/foam drilling applications</i></b>			
<ul style="list-style-type: none"> <li>To help improve foam performance and hole conditions</li> </ul>	0.25 - 1.0	0.6 – 2.4	0.7 – 2.9

- Note:**  
Make-up water used to mix EZ-MUD GOLD stabilizer should meet the following quality:  
total chloride less than 1500 ppm (mg/L)  
total hardness less than 100 ppm as calcium  
total chlorine less than 50 ppm  
water pH between 8.5-9.5
- Reduce total hardness of make-up water by adding soda ash (sodium carbonate) at 0.5 to 1 pound per 100 gallons (0.6 - 1.2 kg/m<sup>3</sup>) of make-up water.

EZ-MUD GOLD stabilizer can be chemically broken down with regular household liquid bleach (5% sodium hypochlorite). Use one gallon of liquid bleach per 100 gallons (10 liters/m<sup>3</sup>) of fluid formulated with EZ-MUD GOLD stabilizer.

*Do not use perfumed liquid bleach or solid calcium hypochlorite.*

**Packaging** EZ-MUD GOLD stabilizer is packaged in 10-lb (4.54-kg) and 40-lb (18.1-kg) plastic containers with re-sealable flip top lids.

**Availability** EZ-MUD GOLD clay and shale stabilizer can be purchased through any Baroid Industrial Drilling Products Retailer. To locate the Baroid IDP retailer nearest you contact the Customer Service Department in Houston or your area IDP Sales Representative.

**Baroid Industrial Drilling Products  
Product Service Line, Halliburton  
3000 N. Sam Houston Pkwy. E.  
Houston, TX 77032**

<b>Customer Service</b>	(800) 735-6075 Toll Free	(281) 871-4612
<b>Technical Service</b>	(877) 379-7412 Toll Free	(281) 871-4613

