**Asphasol Supreme**

*Asphasol Supreme* shale inhibitor is a partially water-soluble, water-dispersible sulfonated asphalt.

It is used to aid in stabilizing shale sections, controlling solids dispersion and improving wall-cake characteristics. It is also used as a supplemental high-temperature fluid-loss additive for water-base drilling fluid systems.

**Typical Physical Properties**

- **Physical appearance**: Fine black/gray powder
- **Specific gravity**: 1.40–1.65
- **pH (2% solution)**: 7–10
- **Solubility in water**: 65–80 @ 72° F

**Applications**

*Asphasol Supreme* additive is a sulfonated asphalt that can be used in most water-base muds. It is a free-flowing powder and can be added directly to the mud system through the mixing hopper. It is not necessary to premix *Asphasol Supreme* inhibitor with oil. It contains no surfactants.

Normal concentrations of *Asphasol Supreme* additive range from 3 to 6 lb/bbl (8.6 to 17.1 kg/m³) for shale stabilizing control and 6 lb/bbl (17.1 kg/m³) for high-temperature fluid-loss control.

In water-base drilling fluid systems, *Asphasol Supreme* inhibitor exhibits the following characteristics:

- Stabilizes shales
- Lowers torque and drag
- Reduces high-temperature fluid-loss
- Produces thin-walled filter cakes
- Improves borehole stability
Advantages
- Easy to handle and mix
- Plugs micro-fractures and seals shales
- Inhibits swelling and water-wetting of shales
- Reduces high-pressure, high-temperature (HPHT) fluid-loss
- Reduces torque and drag
- Improves filter-cake quality
- Increases drilling-fluid lubricity

Limitations
Not recommended for use in non-aqueous fluids.

Toxicity and Handling
Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

Packaging and Storage
Asphsol Supreme inhibitor is available in 50 lb (22.7 kg), multi-wall sacks; 50 sacks per shrink-wrapped pallet.

Store in a dry, well-ventilated area. Keep container closed. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink wrapping and/or stacking.