

# TRAMFLOC, INC.

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## Technical Information Bulletin

### TRAMFLOC® 1054 FRICTION REDUCER

#### ***Product Description***

Tramfloc® 1054 is an anionic polyacrylamide of medium molecular weight and moderate charge density. Tramfloc® 1054 is supplied as a stable, high density dispersion. Tramfloc® 1054 is completely water soluble and produces high viscosity solutions at very low concentrations.

#### ***Uses***

Tramfloc® 1054 is used in light brines to promote hole stability, increase penetration rates, offer better well development, produce consistent mud properties, control fluid loss to the formation, minimize problems with sloughing shales. This formulations is an efficient friction reducer when used in water-based fracturing fluids and is capable of reducing pressure losses due to friction by amounts in excess of 70%.

#### ***Make-Down***

It is recommended that stock solutions, 0.2-0.5%, be prepared from which feed solutions, 0.05-0.1%, are then made.

#### ***Packaging***

Tramfloc® 1054 is available in 440# net weight drums, tote bins, and in bulk.

#### ***Handling and Storage***

Polymer solutions should be made-down and diluted in stainless steel, FRP or plastic vessels. Amphoteric metallic components should be avoided. Make-down water temperatures should be between 60-85° F. Tramfloc® 1054 should be stored in a cool, dry place.

#### ***Safety and Health***

Spills of polymer are extremely slippery. Precautions should be taken to prevent them from entering lakes or streams. Tramfloc® Polymer Cleaner 348 can be used to remove residue from equipment and floors. Polymer can be flushed with copious amounts of water and disposed of according to local regulations or treated with an absorbent material, then collected for subsequent legal disposal. Tramfloc® 1054 has been shown to exhibit a low order of toxicity. Nevertheless, precaution should be taken to prevent inhalation, ingestion or contact with skin or eyes. Observing basic industrial hygiene precautions should prevent any health or safety hazards.

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