

## TECHNICAL DATA SHEET

### Potassium Formate

Potassium Formate is a non-toxic, non-corrosive, high-purity, dry crystalline organic salt that is easily soluble in water to formulate brines. Potassium Formate is used to make high density and solids-free formate brines in the operations of water-based drilling, completion, workover and fracturing, which require densities ranging from 1004 – 1573 kg/m<sup>3</sup> (8.4 - 13.1 lb/gal).

#### Typical Physical Properties

Appearance	Crystalline Powder
Assay (%)	97.0 min
Relative Density @ 25°C (g/cm <sup>3</sup> )	1.91

#### Application

Formate brines make non-corrosive drilling and completion fluid formations that is stable in HTHP operations. Formate brines help to extend polymer stability, stabilize shales, reduce damage to the rock formation and enhance borehole stability. Formate brines improve well productivity with excellent compatibility at reservoir conditions with reservoir fluids. By being able to maintain low viscosity, it also helps to improve drilling speeds and extend the life of the drill bit. All in all, formate brines provide an excellent chloride-free, environmentally benign alternative to traditional high-density brines.

#### 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 Safety Data Sheet (SDS).

#### Packaging and Storage

Packed in 25 kgs Bag and 1 MT Jumbo Bag.

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

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