

# SODIUM FORMATE BRINE SYSTEM

SODIUM FORMATE ( $\text{NaCHO}_2$ ) BRINE SYSTEMS are used to formulate solids-free workover and completion fluids ranging in density from 8.4 to 11.0 lb/gal (1007 to 1318  $\text{kg/m}^3$ ). They eliminate the problems associated with precipitate formation that can occur when using calcium-base fluids in wells with high carbonate, bicarbonate or sulfate concentrations. SODIUM FORMATE BRINE SYSTEMS are also used to form non-damaging FLO-PRO® drill-in fluids.

## TYPICAL PHYSICAL PROPERTIES

Physical appearance	Clear liquid
pH (10% solution)	8.6
Clarity	Crystal clear, <3 NTU
Viscosity (40 wt% solution)	29 cp

## APPLICATIONS

SODIUM FORMATE BRINE SYSTEMS are used for solids-free workover and completion operations which require densities ranging from 8.4 to 11.0 lb/gal (1007 to 1318  $\text{kg/m}^3$ ) and to reduce potential formation damage resulting from clay swelling or clay dispersion or migration. These brines eliminate the potential of formation damage due to the precipitation of carbonate, bicarbonate or

sulfate compounds associated with using calcium-base brines where formation waters contain high concentrations of bicarbonate and sulfate ions. SODIUM FORMATE BRINE SYSTEMS can be used together with potassium formate to give a more cost-effective brine system.

**Note:** Use the Blending Tables to obtain the desired density.



## TOXICITY AND HANDLING

Bioassay information is available upon request.

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

Also observe the health hazard information and emergency and first aid procedures described on the MSDS.

## PACKAGING AND STORAGE

SODIUM FORMATE BRINE SYSTEMS are packaged in bulk liquid quantities.

Store in appropriate corrosion-resistant brine containers and keep closed and firmly sealed.

This information is supplied solely for informational purposes and M-I LLC makes no guarantees or warranties, either expressed or implied, with respect to the accuracy and use of this data. All product warranties and guarantees shall be governed by the Standard Terms of Sale.



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