

Asphaltene Dissolver KMA041

1. Introduction

Wax and asphaltene components tend to phase out of crude oil when the temperature and pressure changes at various locations of the production systems. The deposited wax and asphaltene scales will create flow resistance to the production system and reduce the efficiency of the production system. Asphaltene Inhibitors or dissolvers are generally used to control or resolve the problems described above. KMA041 is an organic-based asphaltene dissolver which is highly effective in removing the deposition of asphaltenes on formation, wellbore and pipelines.

2. Physical Properties and Hazards

Additive	Form	Specific Gravity	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KMA041	Clear Liquid	0.80-0.85	Negligible	40	Skin, Eye	Flammable	N/A

3. Chemical Properties and Application

When KMA041 is a blend of various solvent, surfactant and dispersant to dissolve the asphaltene deposits. It is also effective in removing the composite scales of inorganic and organic deposits. It is more efficient, cost-effective and environmentally friendly compared with conventional asphaltene dissolvers when it is used together with other additives in S³ fluid systems.

Care should be taken when KMA041 contacts some elastomers because ingredient in KMA041 can penetrate cause swelling of elastomer.

KMA041 has a wide variety of applications as a solvent including (1) wellbore and tubing cleanout (2) flowlines and tanks cleanup and (3) formation damage removal. Comprehensive laboratory tests are required to optimize KMA041 loading or the concentration of KMA041 in S³ fluid systems regarding specific application conditions.

S³ fluid systems containing KMA041 are proved to be effective in removal of asphaltene or asphaltene mixture with inorganic scales up to 250°F (121°C).

4. Treatment

KMA041 should be used at a minimum of 150 gal per foot perforation. The recommended shut-in time is about 2 to 4 hours.

5. Packaging

KMA041 is supplied in 5 gallons high density polyethylene (HDPE) pails or 55 gallons HDPE drums. Keep it away from extreme conditions such as places near flames or direct sunlight.