Chemical Production Enhancement Technology

SAGE

## Cerasol: Standard Paraffin Remediation Solvent

Cerasol is a blend of aliphatic and aromatic solvents, as well as a unique blend of demulsifying and surfactants chemistries, capable of dispersing paraffins, asphaltenes, and breaking emulsions. It is custom designed to be the most effective paraffin solvent available. The combination of chemistries create a unique synergistic effect, working together to provide the most effective treatment possible, under a broad range of physical conditions. As well as being an excellent solvent for waxes and paraffins, Cerasol has the ability to break apart emulsions which have formed as a result. It has the ability to dissolve stabilizing compounds, as well as the ability to disperse the constituent phases back into solution, effectively neutralizing many types of emulsion. Cerasol does have the ability to dissolve stubborn high melting point waxes, although the Bentley solvent package may be a preferred chemistry in some instances.

Cerasol can be utilized in any well experiencing plugging or impairment as a result of wax and asphaltene precipitation, or as a result of emulsion formation in either the well itself, or in the near wellbore reservoir area.

## Cerasol can be used for these applications:

1) Removal of paraffin blockage in the wellbore and in the reservoir itself

2) Can be used in conjunction with acid treatments, such as Sage's RFA package, in order to remove organic deposits which would prevent sufficient contact between rock or scales and the acid itself. This greatly enhances the treatment efficacy.

3) As part of regular maintenance packages for problem areas

4) As a batch treatment in order to free entrapped rods, and to dislodge plugged flow lines
The typical treating volumes required can range from between 0.5 to 1 m3 per linear meter of perforations. The volumes required can vary based on the severity of the issues, and recommendations can be made by Sage technical staff as to what volumes may be required.

**Properties:**

Physical State……. Liquid
Flash Point…….....24°C
Density……..... 0.84
Pour Point……... -47°C

**Advantages:**

1) Excellent at breaking paraffin stabilized emulsions
2) Very compatible with almost all formation fluids
3) Provides desirable formation wettability
4) Excellent general purpose solvent

**Disadvantages:**

1. Relatively low flash point: it is recommended that fire prevention measures be taken during pumping operations
Handling Precautions
1) Cerasol can be supplied in bulk or in drums

2) Cerasol is flammable. Avoid ignition sources, as well as contact with the water and skin.,
Should contact occur, please consult the MSDS for specifics