

## Aquasol Aqueous Solvent System

Sage Productions' Aquasol solvent package is a water based package of mutual solvent surfactants and dispersants, as well as demulsifying chemistries, capable of removing paraffinic and asphalteneic deposits, and breaking emulsions. Its 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 organic deposits, the Aquasol solvent has the ability to break apart emulsions which have formed as a result of these deposits. It has the ability to disperse stabilizing materials, as well as the ability to modify the surface tension of affected fluids, effectively neutralizing many types of emulsion.

Aquasol Solvent can be utilized in any well experiencing plugging or impairment as a result of wax or asphaltene precipitation, or as a result of emulsion formation in either the well itself, or in the near wellbore reservoir area. It is recommended in instances where organic deposits or organic stabilized emulsions require remediation, but in circumstances where it may not be feasible to use a hydrocarbon based solvent package. Aquasol is also suitable for use as an additive on a continuous injection basis in injection fields in which substantial hydrocarbon carryover is suspected.



## Applications:

- 1) Removal of organic 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. The typical treating volumes required can range from between 0.5 to 1 m<sup>3</sup> of blended product 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..... 28°C  
Density..... 0.8-0.9  
Pour Point..... -54°C

## Advantages:

- 1) Excellent at breaking organic 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) Aquasol Solvent can be supplied in bulk or in drums
  - 2) Aquasol Solvent is flammable. Avoid ignition sources, as well as contact with the water and skin., Should contact occur, please consult the MSDS for specifics