

## INFORMATION

# OIL AID-MS-1

MUTUAL SOLVENT

### DESCRIPTION

OIL AID-MS-1 is a mutual solvent that is soluble in oil, acid, and water. It serves as a wetting agent, a demulsifier and an interfacial tension reducer. It is effective in 15% hydrochloric acid, mud-acids, and organic acids. The properties of OIL AID-MS-1 are:

Form	Clear, liquid
Specific Gravity	0.90
Viscosity at 77 °F	3.2 cps
Boiling Point	340 °F
Flash Point	165 °F
Molecular Weight	118.18

### APPLICATION

Insoluble formation fines have a tendency to pick up an organic film from crude oil and other materials. These clay particles become partially oil-wet and partially water-wet. This causes them to collect at the interface between oil and water and serve as an emulsifying agent.

They can then be transported to a pore constriction where they can cause plugging with a resulting loss of permeability.

OIL AID-MS-1 provides a solvent action which removes the organic film from the fines leaving them water-wet thereby preventing emulsions and minimizing particle plugging. The product will penetrate deeply into the formation along with the treating fluid due to its low adsorbability on pore surfaces.

OIL AID-MS-1, when used with 15% hydrochloric acid or mud-acid, has a detrimental effect on some inhibitors at high temperatures.

### **RECOMMENDED TREATMENT**

The optimum treatment level of OIL AID-MS-1 in a treating fluid is 10% by volume. It can be added directly to the acidizing fluid, to a preflush or, for best results, to an afterflush.

When acidizing sandstone formations, OIL AID-MS-1 should be used at 10% by volume in a diesel oil afterflush.

### **HANDLING**

Goggles and rubber gloves must be worn while handling OIL AID-MS-1. It can cause severe irritation of the eyes and can be readily absorbed through the skin. In case of contact, eyes or skin should be washed thoroughly. Handle in a well ventilated area. Vapors can cause drowsiness and serious irritation of respiratory passages. Prolonged breathing can cause liver and kidney damage.

### **PACKAGING**

OIL AID-MS-1 is packaged in 55-gallon drums.

OIL AID-MS-1 is a Messina trademark