

**Mayco Stim-50™**

**Mayco Stim-50** is a clear nonionic surfactant which will reduce the surface tension of water, brine, or acid based stimulation fluids and form micro emulsions of these fluids with oils. **Mayco Stim-50** was developed primarily for use in hydrochloric acid systems to aid in breaking down perforations ahead of fracturing, gravel packing or matrix acidizing treatments.

**APPLICATION**

**Mayco Stim-50** can be used in oil, gas or water wells at the rate of two to five gallons per thousand gallons of fluid. When used in the treatment of oil reservoirs, compatibility testing should be performed to determine if additional non-emulsifier will be required.

**TECHNICAL FEATURES AND ADVANTAGES**

- Is very effective in breaking down perforations when used in hydrochloric acid. This can be useful in both carbonate and sandstone formations.
- Has no adverse effects on corrosion inhibitor.
- Provides for low surface and interfacial tension values that result in increased penetration of acid for stimulation, resulting in increased production.
- Because of **Mayco Stim-50**'s low interfacial tension, a lower pressure is necessary to pump acid into the formation.
- May be used in all current acid systems up to a temperature of 225°F.
- As an aid in breaking down perforations ahead of fracturing, gravel packing or acidizing treatments, may be used in regular acid and HC acid or Fe acid.

**PERFORMANCE**

**Mayco Stim-50** may be used to remove damage and increase near wellbore permeability in zones where fracturing would increase water reduction and may also be used to increase acid penetration into wells with low bottom-hole temperatures and low gravity crudes.

**Mayco Stim-50** is compatible with all mineral acids, brines and organic acids.

**TYPICAL PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** Clear colorless liquid

**Odor** Strong

**pH** 8

**Flash Point °C (°F)** 57 (134)

**Boiling Point °C (°F)** 81 (178)

**Specific Gravity** 0.9

**Solubility in Water** Emulsifiable, slightly soluble

**Ionic Character** Nonionic

**Surface tension dynes/cm (1%)** 28.0

**Interfacial tension dynes/cm (1% w/heptane)** < 1.0

**SAFETY AND HANDLING**

Avoid skin and eye contact, inhalation or ingestion. If exposed, wash skin with soap and water, flush eyes with water and seek medical assistance. If ingested, seek medical assistance. Remove contaminated clothing and wash before reusing. Have adequate ventilation or use proper respirator. Wear protective face shield. Dispose of according to applicable regulations. Consult MSDS prior to use.

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