

Mayco Stim-40™

Mayco Stim-40 is a sulfide complexer used in treating sour wells which produce hydrogen sulfide gas (any well which produces H₂S gas). **Mayco Stim-40** will control sulfide cracking of tubulars as well as minimize the precipitation of free sulfur.

APPLICATION

When acidizing sour wells with no iron sulfide scales, **Mayco Stim-40** is recommended for use with appropriate corrosion inhibitors to minimize stress cracking of tubulars. Use 5 to 10 GPTG **Mayco Stim-40** in the acid. All acids must contain an acid corrosion inhibitor. This can be especially critical when treating wells with N, P and chrome steel tubulars.

Mayco Stim-40 is used in combination with citric or nitrilotriacetic (NTA) and acetic acid to control iron and sulfur precipitation from hydrochloric acid as it spends on the formation. This product blend will be referred to as Sour Well Acid (SWA). SWA utilizes citric or NTA and acetic acid to control the precipitation of iron hydroxides.

Mayco Stim-40 is added to the blend to control the precipitation of free sulfur. The recommended concentration range of these chemicals to prepare SWA is as follows: (Higher concentrations of NTA and **Mayco Stim-40** are required for wells with severe iron sulfide scaling problems.)

HCl	7 ½% to 28%
NTA	50 to 400 PPTG
Citric	50 to 150 PPTG
Acetic Acid	10 GPTG
Mayco Stim-40	10 TO 20 GPTG

TECHNICAL FEATURES AND ADVANTAGES

- Can be added on-the-fly on the suction side of the high pressure pumps or batch mixed in the acid
- Is dispersible in water and acid
- Is not corrosive to metal
- Will complex sulfur and limit its tendency to precipitate as the acid spends
- Can be used in HCl:HF blends

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear colorless liquid

Odor Faint characteristic odor

Specific Gravity 1.27 g/cm³

Boiling Point °F (°C) 230 (110)

Melting Point °F (°C) 5 (-15)

Ionic Charge Nonionic

pH 1.0 – 3.0

Vapor Pressure Similar to water

Solubility in Water Complete

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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