



# H<sub>2</sub>LESS

## LIQUID H<sub>2</sub>S SCAVENGER

### DESCRIPTION

H<sub>2</sub>LESS is a liquid zinc chelate solution. The product is soluble in brine, fresh water, and water-base drilling muds.

### APPLICATION

H<sub>2</sub>LESS is specifically designed for hydrogen sulfide scavenging in water base drilling fluids. The zinc is chelated and will not precipitate in high pH systems, nor will it adversely affect the rheology of the fluid. H<sub>2</sub>LESS may disperse mud solids, and should be pilot-tested where dispersion of solids is undesirable.

### RECOMMENDED TREATMENT

Drilling fluids should be pretreated with H<sub>2</sub>LESS prior to drilling a formation suspected of containing H<sub>2</sub>S. 35 gal of product per thousand bbl of drilling fluid initial treatment will scavenge up to 30-50 ppm of soluble sulfide in the drilling fluid. An 8 to 12 gal daily continuous treatment through a chemical injection pump at the mud suction will control moderate intrusion of hydrogen sulfide. Additional treatments will be required as the hydrogen sulfide increases in volume.

### PACKAGING

H<sub>2</sub>LESS is available in 55 gal steel drums and in 5 gal pails.

H<sub>2</sub>LESS is a Messina trademark