



# LMG-30S<sup>®</sup>

## Corrosion & Antifoulant Inhibitor



### DESCRIPTION

**LMG-30S<sup>®</sup>** is the highest concentration oil-soluble, metal organic magnesium sulfonate fuel additive in the industry. **LMG-30S<sup>®</sup>** is used to passivate high temperature corrosion caused by vanadium found in crude and residual grade fuel oils. It is also used as an antifoulant in refinery applications. No dilution or blending is required. **LMG-30S<sup>®</sup>** provides a minimum (3 0%) active magnesium. **LMG-30S<sup>®</sup>** has an important added benefit not found in other organometallic additives, the ability to disperse asphaltenes found in fuel oils and therefore allowing better filtration and atomization of the crude and residual fuel oils.

### APPLICATION

#### TURBINES, DIESEL ENGINES & ANTIFOULANT APPLICATIONS

Add **LMG-30S<sup>®</sup>** corrosion inhibitor directly to gas turbine liquid fuels contaminated with vanadium. Since most ash-bearing fuels require sodium and potassium reduction to specification levels, the product is added after water-washing and fuel purification by electrostatic or centrifugal techniques. Add **LMG-30S<sup>®</sup>** corrosion inhibitor to circulated warm fuel and assure adequate mixing by magnesium analysis. Use a minimum of 10 ppm of *product* (by weight) for each ppm of vanadium present in the fuel. This will maintain the turbine manufacturer's recommended 3-to-1 magnesium to vanadium treating ratio. Add **LMG-30S<sup>®</sup>** corrosion inhibitor directly to the diesel engine fuels contaminated with vanadium. In some instances, these fuels are purified by fuel washing techniques, and in these cases, the product should be added after the purification steps. Normally, a dosage of 3.33 ppm of *product* (by weight) for each ppm of vanadium and sodium present in the fuel will inhibit vanadium corrosion of exhaust valves and reduce turbocharger fouling.

### TYPICAL PROPERTIES

Magnesium, wt%	30.0 min.
Magnesium Base	Sulfonate
Appearance	Dark brown liquid
Density at 60°F (16°C)	12.2 lbs/US gal
Spec. Grav. at 60°F (16°C)	1.464
Flash Point	> 150°F (65°C)
Pour Point	< -10°F (< -23°C)
Viscosity	
	@ (20 °C) < 250 cSt
	@ (40 °C) < 100 cSt
Compatibility with Fuel	Totally Miscible
Matter Water	Nil Wt%
Mg : Ca	> 200

### SAFETY AND HANDLING

**LMG-30S<sup>®</sup>** corrosion inhibitor is readily pumpable from unheated additive storage at temperatures above 0°F (-17 °C). It is stable in mild steel and aluminum storage tanks or in original containers over long periods of time. It is an industrial chemical and should be handled with the same precautions as used with ordinary distillates, solvents, and weak alkalis. Avoid open flame. Avoid skin and eye contact. Wash contaminated areas with soap and water.

### AVAILABILITY

**LMG-30S<sup>®</sup>** corrosion inhibitor is supplied in bulk, net 275 U.S. gallon non-returnable totes, and net 55-U.S. gallon, non-returnable drums. Shipping classification: "Compound, Crude Petroleum Treating."

Before handling, storage or use, see the Material Safety Data Sheet (MSDS) for details.

Liquid Minerals Group, Inc. Customer Care Hotline:  
+1-936-291-2424 (8 a.m. to 5 p.m. CST)

Emergency – Chemtrec (Intl) 800-424-9300  
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