



Heavy-Duty, Synthetic, Micro-Emulsion for Ferrous and Non-Ferrous Metals.

APPLICATIONS		
ADVANTAGES	 drawing fluid. It is form corrosion inhibitors. VULSOL 13 S contain well as non-ferrous ap exhibits very good lubber also provides improve life, and prevents bact VULSOL 13 S is primal plated steel to form bas successfully replaced 	hsparent yellow, fully synthetic, high performance water based nulated with specially selected synthetic lubricity agents, rust ar s no sulfur or chlorine, therefore it can be used for ferrous as plications. It is an environmentally friendly compound that ricity, anti-wear performance, wetting and cooling properties. It d surface finishes, rust protection, longer die life, longer sump eria from growth and rancidity. arily recommended for heavy drawing and stamping of nickel ttery cans. It is used at a concentration of 7% in water and has heavily sulfo-chlorinated emulsions. This product can be used ed with water depending on the severity of the operation.
	 Excellent lubricity, anti-wear, and friction control. Increases die life, prevents ridging, promotes good surface finish. Excellent lubricity propertiesIncreases the tool life on a large scale of cutting parameters maintaining an additive layer on the chip / workpiece / tool surface. Sulfur and chlorine free. Non-staining. Environmentally safe. Permits operator surveillance of the workpiece at all times. Light viscosity means good flushing ability. 	
TYPICAL CHARACTERISTICS		VULSOL 13 S

TTFICAL CHARACTERISTICS	
Appearance	Clear Light Yellow Liquid
Density @ 60°F, lbs./gal.	8.52
Solution, 1:7 (12.5%) with water	Clear
Sulfur, %wt.	None
Chlorine, %wt.	None
Hard Water Stability, 300 ppm	Excellent
pH 1:7 (12.5%) with water	9.5

TOTAL Lubricants USA, Inc.

Linden, NJ 07036 5 North Stiles Street 908.862.9300/800.526.4127 Rockingham, NC 28379 709 Airport Road 800.323.3198 / 800.526.4127 Knoxville, TN 37914 3315 Riverside Drive 800.323.3198 / 800.526.4127