CIMCOOL®

METALWORKING FLUIDS

CIMPERIAL® 1060CFZ

SOLUBLE OIL, METALWORKING FLUID CONCENTRATE

APPLICATIONS		**CIMPERIAL® 1060CFZ** metalworking fluid is recommended for a wide variety of "heavy-duty" machining and grinding operations including turning, drilling, tapping, reaming, gear cutting, and broaching. **Metals:** Carbon Steels, High Speed Steel, Cast Steels, Alloy Steels, Tool Steel, Stainless Steel, Cast Iron, Aluminum, Bronze, Brass, Copper **Duty Range:** For heavy-duty operations
FEATURES & BENEFITS		**CIMPERIAL® 1060CFZ** is a chlorine-free, general-purpose formulation designed for a wide variety of metals and operations. **EXCELLENT BIOLOGICAL CONTROL** - Maintains control of bacteria and mold, resulting in extended fluid life **EXCELLENT LUBRICITY** - Contains mineral oil for physical lubricity - Also contains organic lubricants for heavy-duty operations - Provides excellent tool life and surface finishes **EXCELLENT CORROSION CONTROL** - Controls ferrous and non-ferrous corrosion on parts and machine components **OPERATOR FRIENDLY** - Mild to skin - Easy to mix - Low foaming - Pleasant odor **MACHINE FRIENDLY** - Cleaner machines and work areas create a more pleasant work environment - Residue can be removed with water or alkaline cleaners - No solvent degreasers required as with straight oils **ECONOMICAL** - Wide application on metals and operations - CIMPERIAL® 1060CFZ minimizes requirements for storage, mixing, charging, makeup and maintenance **Note:** CIMPERIAL® 1060CFZB has the same performance characteristics as CIMPERIAL® 1060CFZ but in addition, is designed to be low foaming in soft water (50 ppm hardness)

RECOMMENDED STARTING DILUTIONS		**FOR INDUSTRIAL USE ONLY** **Recommended Starting Dilution: 5% (1:20)** **Typical Operating Range: 5% (1:20) to 10% (1:10)** **For concentrations outside this range contact CIMCOOL® Technical Service at 513-458-8199.** **CIMPERIAL® 1060CFZ** is to be mixed with water for use (add concentrate to water). Add no other substances to the concentrate or mix unless approved by CIMCOOL® Technical Services. Not recommended for use with magnesium or alloyed magnesium. **For concentration analysis, use** the MI Titration Procedure, Non-Solvent Titration Procedure, Total Alkalinity Titration Procedure, or Refractometer.
TYPICAL PHYSICAL AND CHEMICAL PROPERTIES		**Physical state:** Liquid **Appearance and odor:** Clear / Chemical **Colors available:** Undyed, Blue **Solubility in water:** 100% Miscible **Weight, lb/gal, 60°F (15.6°C):** 7.75 **Specific gravity, (H_2O = 1):** 0.9285 **Boiling point, °F (°C):** 212 (100) **Flash point,COC, °F (°C):** 345 (174) **Fire point,COC, °F (°C):** 355 (179) **Freezing point (or pour point), °F, (°C):** < 0 (< -18) If frozen, thaw completely at room temperature. **pH, concentrate:** Not Applicable **pH, 5.0% mix, typical operating conditions:** 8.9 **Total chlorine/chloride, wt%, calculated:** 0.00/< 50 ppm **Total sulfur, wt%, calculated:** 0.2 **Silicones:** None **Triazine:** None **Dicyclohexylamine:** None
PACKAGING		**Available in 5-gallon pails, 55-gallon drums, and bulk containers.**

REFRACTOMETER FACTOR = 0.9 Multiply the scale reading obtained on your CIMCOOL® Metalworking Fluid or other acceptable refractometer by the **Refractometer Factor** to obtain the mix concentration in percent.

NOTE: Calibrate the refractometer so that it reads 0.0 with water, before testing the sample mix. Remove gross contaminants from the sample mix before testing.

For additional information concerning CIMPERIAL® 1060CFZ, refer to its OSHA MSDS or contact CIMCOOL® Technical Services at 1-513-458-8199. Reprints/Updates of this Product Information Flyer (PIF) can be found on our web site, WWW.CIMCOOL.COM or from your Milacron representative.

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