

# CIMCOOL®

## METALWORKING FLUIDS

### CIMTECH® 500

#### SYNTHETIC, METALWORKING FLUID CONCENTRATE

<b>APPLICATIONS</b>	<p><b>CIMTECH® 500</b> is recommended for machining and grinding operations of ferrous materials, where a heavy-duty synthetic fluid is desired. It is an excellent choice for central system applications.</p> <p><b>Metals:</b> Cast Iron, Nodular Iron, Carbon Steels, High Speed Steels, High Alloy Steels Stainless Steels, Tool Steels, Titanium, Other Exotic Metals; It is not recommended for use with aluminum alloys.</p> <p><b>Duty Range:</b> For moderate to heavy-duty operations</p>
<b>FEATURES &amp; BENEFITS</b>	<p><b>HEAVY-DUTY SYNTHETIC</b> - All the advantages of a synthetic fluid, with the capabilities of a heavy-duty product.</p> <p><b>VERSATILE, MULTI-PURPOSE PRODUCT</b> - Capable of performing both heavy-duty grinding and machining operations, and some stamping and drawing operations</p> <p><b>NEW TECHNOLOGY FORMULATION</b> - Product contains no ethanolamines</p> <p><b>EXCEPTIONALLY GOOD BACTERIA AND MOLD CONTROL</b> - No offensive odors caused by excessive bacteria - Long fluid life, minimizes concentrate usage and downtime</p> <p><b>GOOD FERROUS CORROSION CONTROL</b> - Protects cast iron and steel parts, as well as machine components from rust</p> <p><b>CLEANLINESS</b> - No oily mist or smoke - Leaves a soft, non-tacky residue that is easily rinsed off - Mild to use when used as recommended - Outstanding cleaning action – Keeps machines clean</p> <p><b>ECONOMICAL</b> - Low carry-off on parts and chips result in lower concentrate usage compared to soluble oil and semisynthetic metalworking fluids - Can be used in any type of filter system - The product can be recycled</p>

<b>RECOMMENDED STARTING DILUTIONS</b>	<p><b>FOR INDUSTRIAL USE ONLY</b>  <b>Recommended Starting Dilution: 5% (1:20)</b>  <b>Typical Operating Range: 5% (1:20) to 10% (1:10)</b>  <b>For concentrations outside this range contact CIMCOOL® Technical Service at 513-458-8199.</b></p> <p><b>CIMTECH® 500</b> is to be mixed with water for use (add concentrate to water).</p> <p>Add no other substances to the concentrate or mix unless approved by CIMCOOL® Technical Services. Not recommended for use with magnesium or alloyed magnesium.</p> <p><b>For concentration analysis, use</b> the Total Alkalinity Titration Procedure, BCG Titration Procedure, CIMCHEK™ Test Strip, or Refractometer.</p>
<b>TYPICAL PHYSICAL AND CHEMICAL PROPERTIES</b>	<p><b>Physical state:</b> Liquid  <b>Appearance and odor:</b> Clear / Chemical  <b>Colors available:</b> Undyed, Pink, Blue  <b>Solubility in water:</b> 100% Miscible  <b>Weight, lb/gal, 60°F (15.6°C):</b> 8.81  <b>Specific gravity, (H<sub>2</sub>O = 1):</b> 1.06  <b>Boiling point, °F (°C):</b> 212 (100)  <b>Flash point, COC, °F (°C):</b> None, Self Extinguishing  <b>Fire point, COC, °F (°C):</b> NA  <b>Freezing point (or pour point), °F, (°C):</b> &lt; 0 (&lt; -18)  If frozen, thaw completely at room temperature.  <b>pH, concentrate:</b> 9.9  <b>pH, 5.0% mix, typical operating conditions:</b> 9.0  <b>Total chlorine/chloride, wt%, calculated:</b> 0.00/0.08  <b>Total sulfur, wt%, calculated:</b> 0.00  <b>Silicones:</b> None  <b>Triazine:</b> None</p>
<b>PACKAGING</b>	<b>Available in 5-gallon pails, 55-gallon drums, and bulk containers.</b>
<p><b>REFRACTOMETER FACTOR = 1.8</b> Multiply the scale reading obtained on your CIMCOOL® Metalworking Fluid or other acceptable refractometer by the <b>Refractometer Factor</b> to obtain the mix concentration in percent.</p> <p><b>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.</b></p>	
<p>For additional information concerning CIMTECH® 500, 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, <a href="http://WWW.CIMCOOL.COM">WWW.CIMCOOL.COM</a> or from your Milacron representative.</p>	
<p><small>LIMITATION OF LIABILITY: Under no circumstances shall we or any affiliate of ours have any liability whatsoever for loss of use or for any indirect or consequential damages. Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.</small></p> <p style="text-align: center;"><small>Milacron Marketing Company LLC Cincinnati, Ohio 45209</small></p>	
<b>PC-3000</b>	<b>03/01/2010</b>

