

# CIMCOOL®

## METALWORKING FLUIDS

### INHIBITOR AL METALWORKING FLUID ADDITIVE

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| <b>DESCRIPTION</b> | <b>INHIBITOR AL</b> is an aluminum corrosion-inhibiting additive which can be used in central filtration system and individual machine reservoirs to temporarily regain corrosion and staining control in metalworking fluid mixes.   |
| <b>WHEN TO USE</b> | Add <b>INHIBITOR AL</b> to <b>CIMCOOL®</b> metalworking fluid mixes as recommended by <b>CIMCOOL®</b> Technical Services.   |
| <b>HOW TO USE</b>  | Pour <b>INHIBITOR AL</b> directly into the "clean" side of a central filtration system. Add where contamination is lowest and will be less likely to reduce its effectiveness. <b>INHIBITOR AL</b> is highly alkaline and must be added to the metalworking fluid mix before use. Add slowly to avoid splattering. Avoid contact with skin, eyes, mucous membranes and clothing. For individual machines, add directly to the sump (machine reservoir). |

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| <b>RECOMMENDED STARTING DILUTIONS</b>  | <p><b>FOR INDUSTRIAL USE ONLY</b><br/> <b>Recommended Starting Dilution: 0.1% (1:1,000)</b><br/> <b>Typical Operating Range: 0.1% (1:1,000) to 0.2% (1:500)</b><br/> <b>For concentrations outside this range contact CIMCOOL® Technical Service at 513-458-8199.</b></p> <p><b>INHIBITOR AL</b> is to be added to CIMCOOL® metalworking fluid mixes as described above.</p>  |
| <b>TYPICAL PHYSICAL AND CHEMICAL PROPERTIES</b>  | <p><b>Physical state:</b> Liquid<br/> <b>Appearance and odor:</b> Clear / Chemical<br/> <b>Colors available:</b> Undyed<br/> <b>Solubility in water:</b> 100% Miscible<br/> <b>Weight, lb/gal, 60°F (15.6°C):</b> 9.45<br/> <b>Specific gravity, (H<sub>2</sub>O = 1):</b> 1.132<br/> <b>Boiling point, °F (°C):</b> 212 (100)<br/> <b>Flash point, COC, °F (°C):</b> NA<br/> <b>Fire point, COC, °F (°C):</b> NA<br/> <b>Freezing point, °F, (°C):</b> 28 (-2)<br/>         If frozen, thaw completely at room temperature.<br/> <b>pH, concentrate:</b> 13.0<br/> <b>Total chlorine/chloride, wt%, calculated:</b> 0.0<br/> <b>Total sulfur, wt%, calculated:</b> 0.0<br/> <b>Silicones:</b> None</p> |
| <b>PACKAGING</b>   | <b>Available in 5-gallon pails and 55-gallon drums.</b>   |
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| <p>For additional information concerning INHIBITOR AL, 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>Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.<br/>         Consumable Products Division/ Milacron Marketing Company<br/>         Cincinnati, Ohio 45209</p> <p><b>PC-9974 4/25/05</b></p> |   |

