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## NEWS RELEASE

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### **Boeing Approves TRIM<sup>®</sup> MicroSol<sup>®</sup> 585 and TRIM<sup>®</sup> E917 for Aerospace Manufacturing**

***MicroSol 585, a nonchlorinated, semisynthetic metalworking fluid, and E917, a low-foam, high-lubricity emulsion, have received Boeing process spec number BAC5008 approval for areas 5 and 6, which includes machining titanium alloys.***

Perrysburg, Ohio April 23, 2009—Master Chemical Corporation is pleased to report that MicroSol 585, a nonchlorinated semisynthetic metalworking fluid, and E917, a low-foaming, high-lubricity emulsion, are qualified for areas 5 and 6 of the Boeing process spec BAC5008. Boeing usage area 5 approval includes machining of nonsealant and nonpaint parts not described in BAC5008 specification areas 1 through 4, while area 6 includes machining, grinding, or cutting detail parts and assemblies made of titanium alloys. MicroSol 585 approval can be found in PSD 6-123 and E917's approval in PSD 6-124.

Boeing is the world's leading aerospace company and the largest manufacturer of commercial jetliners and military aircraft combined. Additionally, Boeing designs and manufactures rotorcraft, electronic and defense systems, missiles, satellites, launch vehicles, and advanced information and communication systems. As a major service provider to NASA, Boeing operates the Space Shuttle and International Space Station. The company also provides numerous military and commercial airline support services. Boeing has customers in more than 90 countries around the world and is one of the largest U.S. exporters in terms of sales. Boeing and their subcontractors are using titanium and this approval allows them to use MicroSol 585 to machine these high-tech aerospace alloys to make parts for all aircraft including the 737, 767, 777, and 787 families of airplanes. "MicroSol 585 is an excellent cutting fluid for titanium because it provides superior cooling and excellent lubricity which improves surface integrity, reduces residual stress, and creates more efficient machining," stated Master Chemical's Aerospace Segment Manager, Charles P. Gee. It is compatible and stain resistant with 6000 and 7000 series aluminums, titanium alloys, and stainless steels. MicroSol 585 provides longer sump life and very low carryoff for reduced operating costs.

Boeing and its suppliers will greatly benefit from being able to use MicroSol 585 because it is easily recyclable and very environmentally friendly," commented Charles Gee. MicroSol 585 is biostable and low misting which lowers risk and minimizes disposal

requirements. MicroSol 585 soars above the radar of the federal regulations by passing the stringent California Code of Federal Regulations "CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay" test. An independent laboratory verified that MicroSol 585, at 10%, receives the passing score of LC50>750 mg/l. MicroSol 585 has low chemical odor, no chlorinated or sulphurized EP additives, and no nitrites, triazines, or phenols.

E917 is a low-foam, high-lubricity soluble oil which requires minimal maintenance in even the most demanding fluid management systems. E917 features a very stable formula for long operational life and consistently high performance with broad applications in machining and grinding on a range of materials. Applications include production surface and centerless grinding, heavy-duty broaching, gear hobbing, and surface, pocket, and thread milling. "E917 is an excellent fluid for the demanding aerospace industry because it works well in high-pressure, high volume, through-the-tool coolant systems. E917 provides the right balance of cooling and lubricity to deliver both tool life and surface finishes," remarked Charles Gee. E917 protects machine and tool surfaces while preventing sticky ways, chunks, tool holders, and fixtures. The coolant is easily removed with water, working solutions, or aqueous cleaners for easy recycling. This highly effective product, with its fine particle size emulsion, helps reduce carryoff and facilitates getting fluid to the point of cut.

#### **About Master Chemical Corporation**

Master Chemical Corporation was founded on November 13, 1951. Since then, working closely with the worldwide metalworking community, Master Chemical Corporation has developed and marketed a full line of specialty cutting and grinding fluids, cutting oils, concentrated washing and cleaning compounds, and rust preventives all under the TRIM® Brand trademark. These products are both environmentally sound and when used in conjunction with Master Chemical's XYBEX® Coolant Recycling and Filtration Systems, are the most durable and stable products available anywhere today. Master Chemical has always been committed to the safety of the people who use our products, the protection of our planet, the environment we live in, and the overall impact on our customers' profitability. Master Chemical serves customers globally. For further information please contact a local Distributor near you <http://www.2trim.us/distributors.php>, call us at 419-874-7902, or visit our website at [www.masterchemical.com](http://www.masterchemical.com).

Photos:

Milling an aircraft spar with TRIM MicroSol 585, 300 dpi photo

<http://www.2trim.us/2009-04-23-585-pw.php>

Milling an aircraft spar with TRIM MicroSol 585, 72 dpi photo

<http://www.2trim.us/2009-04-23-585-ww.php>

Milling with TRIM E917, 300 dpi photo

<http://www.2trim.us/2009-04-23-917-pw.php>

Milling with TRIM E917, 72 dpi photo

<http://www.2trim.us/2009-04-23-917-ww.php>

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