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BREAKTHROUGH[®]

BREAKTHROUGH[®] is a benzene free, HAP free, state of the art solvent designed to help users break out of the tangle of regulations regarding emissions, disposal, and industrial health hazards. **BREAKTHROUGH[®]** is a virtually odorless, low toxicity, high-purity hydrocarbon that exhibits a very low degree of irritancy to the eyes and is non-irritating to the skin. It has low vapor pressure to control volatile organic compound (VOC) emissions, is non-carcinogenic, and is not regulated under SARA, Title III, Sections 302 or 313, CERCLA, and RCRA requirements. **BREAKTHROUGH[®]** has no listed components and no characteristics of hazardous waste per the EPA; and worker exposure is not regulated by the OSHA Z-list.

BREAKTHROUGH[®] enjoys the following specifications:

BOEING AIRCRAFT COMPANY

- **BAC 5750** - General Solvent Cleaning on Boeing Aircraft.

CFM AIRCRAFT ENGINES

- **CP 2011** - **BREAKTHROUGH[®]** is approved for all aircraft engine cleaning applications calling for PD-680 Type I and Type II.

GE AIRCRAFT ENGINES

- **C04-002** - **BREAKTHROUGH[®]** is approved for all engine cleaning applications calling for PD-680 Type I and Type II.

PRATT & WHITNEY

- **PMC 9001** - **BREAKTHROUGH[®]** approved to Engine Cleaning Specification.

ROLLS ROYCE AIRCRAFT ENGINES

- **BREAKTHROUGH[®]** is approved for all aircraft engine cleaning applications calling for PD-680 Type II.

BELL HELICOPTER

- Part Number **2110-07015** - General solvent cleaning on Bell Helicopter Aircraft.

SIKORSKY AIRCRAFT CORPORATION

- Part Number **08UTC-40588** - General cleaning on Sikorsky Aircraft.

U.S. AIR FORCE

- PRO-ACT SS Talk Edition 31, Dec 96 authorizes **BREAKTHROUGH[®]** as MIL PRF-680, Type II.

U.S. ARMY

- "Based upon favorable toxicity, regulatory and use data; a toxicity clearance is granted for **BREAKTHROUGH[®]** for use as a degreasing solvent." U.S. Army Center for Health Promotion and Preventative Medicine, 28 January, 1997.
- APC Tech Message #92 authorizes **BREAKTHROUGH[®]** as an Environmentally Compliant Replacement for PD-680 Type I and Type II for cleaning U.S. Army Weapons, Ground Vehicles, Equipment, and Aviation materials.
- TACOM - Meets Military Specification for MIL PRF-680, Type II.
- TACOM – ACALA Maintenance Advisory Message No. 97-17, authorizes **BREAKTHROUGH[®]** for use on all small arms and aircraft armament systems.
- TB 43-0135 – Recommended substitute for ozone depleting substances used on communications-electronics equipment.

Physical/Chemical Characteristics

Vapor Pressure (@20°C): 0.1 mmHg

Flash Point: 150°F PMCC