

# **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 a 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 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.

## **DEPARTMENT OF DEFENSE**

- TACOM – ACALA Maintenance Advisory Message No. 97-17, authorizes **BREAKTHROUGH®** for use on all small arms and aircraft armament systems.
- TACOM – Meets military Specification for MIL PRF-680, Type II.
- TB 43-0135 – Recommended substitute for ozone depleting substances used on communications-electronics equipment.

## **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 Jan 97.
- 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.

### **Physical/Chemical Characteristics:**

Vapor Pressure (@20°C): 0.1 mmHg / Flash Point: 150°F PMCC

**National Stock Number for 5 Gallon Can: 4250-01-595-9601**