

SMT Detergent Corp.

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Made in U.S.A.



TECHNICAL PRODUCT DATA

Smart Sonic's 440-R® SMT Detergent

Ready-To-Use Spray Bottle

For **MSDS** go to: www.SmartSonic.com

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DESCRIPTION

Smart Sonic's 440-R SMT Detergent in a spray bottle is a mild alkaline formulation designed for manual cleaning to remove RA, RMA, No Clean, Water Washable (OA) and Lead Free solder pastes from screens, stencils and related tooling used in the SMT printing process. 440-R SMT Detergent contains no CFCs, VOCs, terpenes, alcohol or other hazardous ingredients.

Smart Sonic's 440-R SMT Detergent was certified by the California Environmental Protection Agency (1999) and verified for specific parameters of environmental safety, user safety and cleaning efficiency by the U.S. Environmental Protection Agency's ETV Program. It has also been certified as a "Clean Air Solvent" by the South Coast Air Quality Management District's (AQMD) CAS Program (1997) and is RoHS Compliant.

PHYSICAL PROPERTIES

Appearance:	Clear Purple Liquid	Rinsing:	Complete
Odor:	Mild, pleasant	Hard Water Stability:	500 ppm
pH (15% solution):	11.5– 12.1	Biodegradable:	Yes
Flash Point:	None	Hazardous Ingredients:	None
Foaming:	Medium		

INSTRUCTIONS FOR CLEANING SOLDER PASTE FROM SMT SCREENS AND STENCILS:

View video demonstration at: www.SmartSonic.com and review **MSDS**

- Wear Safety glasses and gloves
- Remove excess solder paste by using a blade or spatula.
- Using a "trigger spray" bottle, spray 440-R SMT Detergent directly on the stencil being certain to saturate all contaminated areas.
- Wipe clean with a lint-free cloth. If solder paste is dry, allow 440-R SMT Detergent to stand for 2 – 5 minutes before wiping.
- Repeat on other side of stencil.
- Spray rinse with plain or DI water. Wipe rinse water with a clean lint-free cloth. Repeat on other side of stencil.
- Inspect apertures for contamination.
- Spray 440-R SMT Detergent directly into contaminated apertures using the force of the spray to clear the contamination.
- Spray rinse with plain or DI water again using the force of the spray to clear the apertures.
- Inspect and repeat, if necessary

While 440-R SMT Detergent will rinse well using "hard water" (500 ppm), it is recommended that either soft or DI water be used in order to prevent mineral deposits (water spots) on stencils and ionic contamination on PCBs.

PRODUCT SAFETY

Materials: Safe on all metals, plastics and ceramics when used as directed.

Environmental: Certified safe and effective by the California Environmental Protection Agency (1999) and verified by the U.S. EPA. 440-R SMT Detergent was also certified as a "Clean Air Solvent" by the South Coast Air Quality Management District's (AQMD) CAS Program (1997). For more information, visit the following Web Sites: <http://www.epa.gov/etv/verifications/vcenter6-10.html> and <http://www.calepa.ca.gov/CalCert/CertifiedTech/SmartSon.htm>

Personnel: Contains no hazardous ingredients. User should wear protective gloves and safety glasses. When cleaning solder paste or other hazardous contaminants, consult the MSDS for that material and follow all safety recommendations. Consult MSDS for complete safety details of 440-R SMT Detergent.

Shelf Life: The recommended shelf life is two-years for unopened containers that are stored at temperatures between 40 – 110 degrees F. (5 – 38 degrees C.) and one-year for properly stored open containers.