



# JNJ INDUSTRIES®

## TECHNICAL DATA SHEET

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### AquaSonic® AQUEOUS CLEANER FOR SOLDER PASTE & FLUX/AQP

#### PRODUCT DESCRIPTION:

GlobalTech AquaSonic concentrated aqueous cleaner for Solder Paste and Flux is more than 95% water based and all ingredients are 100% active. It has been specially formulated to remove solder paste and flux residue from stencils, squeegees, printed circuit boards, and other surfaces. AquaSonic utilizes a proprietary "electro-chemistry" technology to clean. It works by reversing the normal polarity of the contaminant. The reversal of the polarity causes the like charges of the contaminant and the substrate to repel each other, thereby preventing reattachment to the substrate. The contaminants are suspended from the substrate so they can be washed away, leaving a clean, shiny, water break-free surface. AquaSonic works at a sub-molecular level and is especially suited for use in critical clean applications because of its unique ability to penetrate crevices and orifices to dislodge microscopic contaminants. This method of cleaning drastically improves the cleaning efficiency by minimizing the amount of rinse water needed.

#### APPLICATIONS:

REMOVES SOLDER PASTE & FLUX RESIDUE FROM:

- Screens & Stencils
- Printed Circuit Boards
- Other Contaminated Surfaces
- Squeegees
- Tools & Accessories

#### PRODUCT & ENVIRONMENTAL HIGHLIGHTS:

- Environment & Worker Friendly
- Non-Hazardous, Non-Corrosive, Non-Emulsifying, and low Toxicity
- Ion-Free
- CFC, HCFC Free, < .1% VOC's
- Biodegradable
- Certified Clean Air Solvent by SCAQMD
- **NO** hydrocarbons, phosphates, silicates, saponifiers, builders or chelating agents with little surfactants
- Recyclable (ability to be separated from effluent contaminants)

#### INSTRUCTIONS FOR USE:

Use between 5 and 15% concentrate, depending on the application, equipment used, and operating temperature. All forms of water can be used to dilute (DI water is recommended). In critical clean applications, filtered, distilled or deionized (DI) water should be used. While highly effective at ambient temperatures, the effectiveness of AquaSonic is greatly enhanced at higher temperatures. At 140°F, AquaSonic can be ten times more effective than identical concentrations at ambient temperature. Typical operating temperatures for most applications is between 110-130°F. Wet solder paste can be cleaned at lower dilutions and at lower temperatures. Typically, the lower the temperature the higher the dilution percentage. **To Prevent Foaming:** Fill system with water first and then add the desired amount of chemistry. Top off with water. An anti-foaming agent may be required for some cleaning processes, consult with manufacturer for details. **Recommended Cleaning Processes:** Ultrasonic Cleaning, In-line or Batch Cleaning, Spray On Air, Spray Under Immersion, Immersion Cleaning and Hand Cleaning.

#### TECHNICAL DATA:

**INGREDIENTS:** A proprietary Oxygen and Sulfur containing compound, DI Water

MELTING POINT °F	BOILING POINT °F	FLASH POINT °F TCC	EVAPORATION RATE (BuAc=1)	VAPOR DENSITY (air=1)	VAPOR PRESSURE (mmHg)	SPECIFIC GRAVITY (Water=1)	% VOLATILE (by weight)	SOLUBILITY IN WATER
NA	200°	300°	<0.1	ND	18.0	1.06(8.82 il/gal)	>90	>90

**HAZARD RATING:** Fire: 0, Toxicity: 1, Reactivity: 0 **HAZARD CLASS:** NON-HAZARDOUS  
**IN ALL CASES REFER TO THE MATERIAL SAFETY DATA SHEET (MSDS).**

## ADVANTAGES OF GLOBALTECH AQUASONIC CONCENTRATED AQUEOUS CLEANERS:

- **ION FREE** - necessary for electronic assemblies, closed loop DI systems and spot free rinsing. Will not leave an ionic residue, thereby minimizing or eliminating rinsing. *Note:* a non-ionic residue may be left on the surface if rinsing is not performed.
- **EXTENDS BATH LIFE** - contaminants do not emulsify into solution.
- **ELEVATED RECYCLABILITY** - contaminants are more easily removed through our "electro-chemistry" technology. AquaSonic chemistries can easily pass through micron filters with minimum loss of chemistry and can be used in conjunction with closed loop DI systems.
- **IMPROVE CLEANING EFFECTIVENESS & EFFICIENCY** - significantly reduces or eliminates rinsing requirements. No soapy residue left on parts. Reduces the amount of process time.
- **REDUCES WASTE** - less chemistry and rinse water used, minimizes total water consumption.
- **SIMPLIFIES WASTE TREATMENT** - simplifies the waste treatment process, making a difference in the way companies approach waste water disposal, both economically and ecologically. Simplifies most separation procedures, one product for all cleaning applications, only one chemistry to treat.
- **CLEANING VERSATILITY** - cleans solder paste & flux and a wide range of contaminants.
- **COMPLETELY VERSATILE** - a drop-in replacement for most other aqueous cleaners. Eliminate multi-cleaner inventory.

## RECYCLING:

AquaSonic can be recycled using Microfiltration or Ultrafiltration systems. It is ion free, will not clog rosin bed filters, and can be used in a closed loop DI water systems. If recycled through a DI water system, replenishment chemistry may be necessary.

## TREATMENT AND DISPOSAL:

Treatment, containment and disposal of all effluents and other wastes should be done in accordance with local, state, and federal ordinances. In case of spill or leak AquaSonic should be diluted with copious amounts of water. It is biodegradable and is completely miscible with water. pH levels may need to be neutralized, and any additional contaminants filtered out before being sewer or surface water discharged.

## STORAGE AND SHELF LIFE:

2 year shelf life. Store in dry cool area.

## AQUASONIC PACKAGING AND ORDERING INFORMATION:

*JNJ AquaSonic products can be ordered from an approved distributor near you.*

AquaSonic part numbering and packaging are as follows:

GA6AQP	1 gallon container, 6 gallons per case	DR05AQP	5 gallon container
SB6AQP	1 pint spray bottle, 6 pints per case	DR55AQP	55 gallon drum

*Gallons and drums are sold in concentrate - sprays are sold premixed w/DI water*

### **MORE GlobalTech AquaSonic Aqueous Cleaners:**

- SCS Spray Cleaner Solution
- SMA for Surface Mount Applications (no heat required cleaning)

For samples, contact JNJ Industries or your sales representative.

## **ADDITIONAL JNJ PRODUCTS OF INTEREST**

- JNJ's **UltraSonic Stencil Cleaning Systems**
- JNJ's **GlobalTech CFC & HCFC chemistries** in drums, gallons, sprays, & presaturated wipes
- **Foil Refill Packs (FRP's)** for SuperSats
- **SmartWipe® Dry Wipes**
- **Polyurethane Squeegee Blades**
- **Metal Squeegee Blades & Holders**
- **SmartRoll® UnderStencil Wiping Rolls**
- SmartRoll **SelectaWipe™**
- **MPM Universal Tooling Plate**

GlobalTech AquaSonic Technical Data Sheets are published based on sources believed to be accurate. JNJ Industries does not guarantee the accuracy of the information and does not assume liability in connection with any damages that may be incurred while using the product.

For more information see the corresponding AQP MSDS or contact:

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