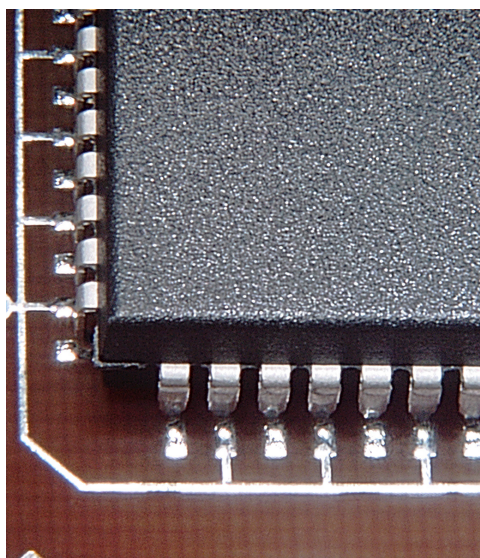


# AQUANOX® A4651US

## Low pH Ultrasonic Immersion Cleaner

AQUANOX® A4651US is a low pH aqueous cleaning solution designed exclusively for use in ultrasonic immersion cleaning systems. A4651US will provide brilliant solder joints with no sump side additives and cleans exceptionally well on the latest flux formulations.



- **Effective on All Flux Types**
- **Produces Mirrored Solder Joints**
- **Consistent Successful Cleaning Results with Minimal Bath Monitoring**
- **Multi Metal Safe including Aluminum and Copper**
- **Easy to use with a Low pH**

### PRODUCT PROPERTIES

|                      |              |
|----------------------|--------------|
| <b>pH (10g/L)</b>    | 10.5         |
| <b>FLASH POINT</b>   | N/A          |
| <b>BOILING POINT</b> | 210°F / 99°C |
| <b>WATER SOLUBLE</b> | Complete     |
| <b>VOC, @ 10%</b>    | 55.1 g/L     |

### TYPICAL PROCESSES

|                      |   |
|----------------------|---|
| <b>APPLICATION</b>   | Ultrasonic                                  |
| <b>CONCENTRATION</b> | SnPb Alloys - <25%<br>Pb-Free Alloys - <30% |
| <b>TEMPERATURE</b>   | <150°F / 66°C                               |
| <b>RINSE</b>         | Hot DI Water                                |
| <b>DRY</b>           | Hot Air                                     |

*The above process parameters are recommendations based on extensive testing done in KYZEN's Application Lab. Your KYZEN Sales Representative can assist you in optimizing your process parameters.*

### STORAGE AND HANDLING

- Packaged in Polyethylene Containers
- Store at 5-30°C/41-86°F in Original Container
- Standard Chemical Handling Practices
- Shelf Life of 5 Years, in Sealed Containers of 5 gallons / 25 liters or more

### AVAILABILITY

- |              |               |
|--------------|---------------|
| • 1 Gallon   | • 5 Liters*   |
| • 5 Gallons  | • 25 Liters*  |
| • 55 Gallons | • 200 Liters* |

\* Liters Available in South Asia and Europe

# AQUANOX® A4651US

Low pH Ultrasonic Immersion Cleaner



## ENVIRONMENTAL, HEALTH AND SAFETY REGULATIONS

AQUANOX® A4651US is a non-hazardous, biodegradable aqueous solution. It contains no CFC's or HAP's. Refer to the Safety Data Sheet for more information.

**REACH** ✓ KYZEN is an ISO 9001:2008 company.

## COMPATIBILITY

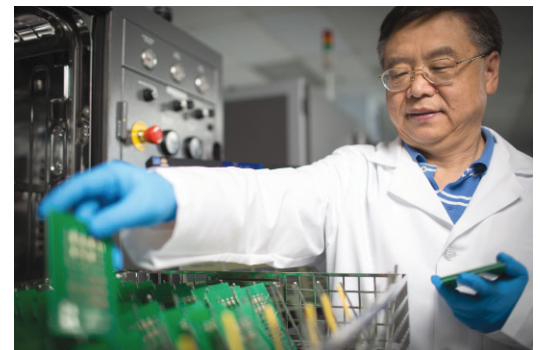
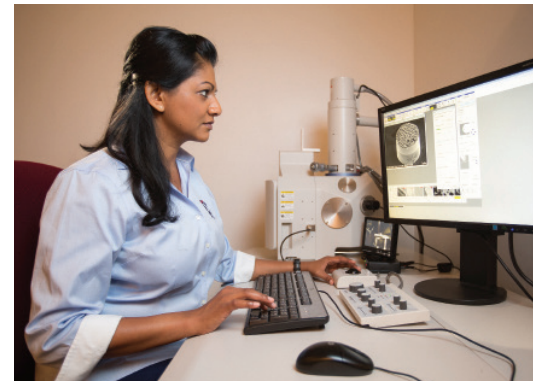
AQUANOX® A4651US is compatible with all materials commonly used in electronic assembly manufacturing and cleaning processes. For specific compatibility information, please contact your KYZEN representative.

## FREE CLEANING TRIALS AND PROCESS OPTIMIZATIONS

KYZEN will conduct complimentary trials at your factory or "risk-free" testing in one of our global Applications Laboratories in North America, Asia or Europe to ensure you achieve your goal. Increase your yields and product reliability by identifying and tuning the critical parameters of your cleaning process. With our commitment to science and understanding process, KYZEN has the flexibility to simulate and refine any cleaning process – including yours!

*Each laboratory is fully equipped with an extensive array of cleaning and analytical equipment, including, but not limited to:*

- Batch Washers
- In-Line Washers
- Ultrasonic Systems
- SUI Systems
- Vapor Degreasers
- GC (TCD and FID)
- Scanning Electron Microscope (SEM)
- Ion Chromatography
- FTIR Spectrophotometer
- Humidity Chamber
- High Powered Microscopes



***Aqueous, Semi-Aqueous and Vapor Phase Chemistries • Process Evaluation and Optimization  
Contract Cleaning • Cleanliness Testing • Soil Analysis***

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