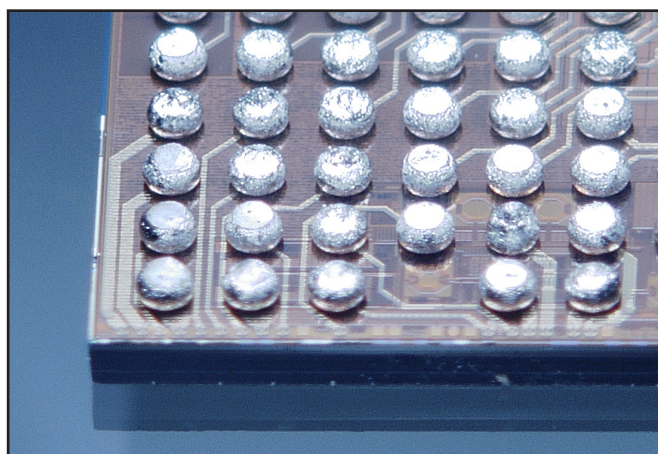


# MICRONOX® MX2322

## *Semiconductor & Advanced Assembly Cleaning Solutions*

MICRONOX MX2322 is a semiconductor grade engineered semi aqueous solvent and designed to clean all types of paste fluxes common in wafer bumping, wafer level packaging, die attach, flipchip and SiP that contain copper pillar. MICRONOX MX2322 has a wide process window, as well as a long bath life, to remove tough flux residue at a fast rate and is compatible with all sensitive metals. MICRONOX MX2322 demonstrates its excellent cleaning performance and benefits in single-wafer spray-in-air tools as well as all immersion cleaning systems.



- **Effective in Single Wafer SIA, Ultrasonic and all Immersion Cleaning Systems**
- **Compatible with Sensitive Metals and Passivation Materials**
- **Effective on All Types of Residues on Lead Free & High Pb Process**
- **Wide Process Window**
- **Low Cost Ownership**

### PRODUCT PROPERTIES

<b>pH (10g/L)</b>	9.4
<b>FLASH POINT</b>	208°F / 98°C
<b>BOILING POINT</b>	343°F / 173°C
<b>WATER SOLUBLE</b>	Partial
<b>VOC, @ 100%</b>	1001 g/L

### TYPICAL PROCESSES

<b>APPLICATION</b>	For use in all immersion systems as received
<b>CONCENTRATION</b>	Use as Received
<b>TEMPERATURE</b>	<165°F / 74°C
<b>RINSE</b>	DI Water Rinse
<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

# MICRONOX® MX2322

Semiconductor & Advanced Assembly Cleaning Solutions



## ENVIRONMENTAL, HEALTH AND SAFETY REGULATIONS

MICRONOX MX2322 is a biodegradable, non-flammable, non-corrosive solvent. It contains no CFCs or HAPs. Refer to the Safety Data Sheet for more information.

**REACH** ✓ KYZEN is an ISO 9001:2015 Certified Company

## COMPATIBILITY

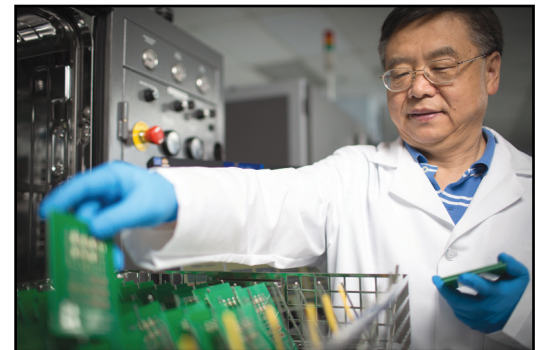
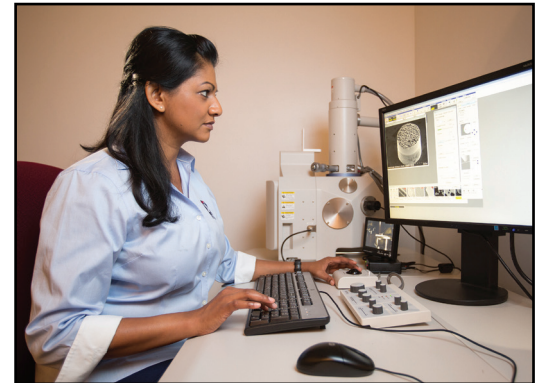
MICRONOX MX2322 is compatible with all materials commonly used in electronic assembly, wafer bumping, and advanced packaging manufacturing. For specific compatibility information, please contact your KYZEN representative.

## 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.

*Each laboratory is fully equipped with an extensive array of cleaning and analytical equipment including:*

- 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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