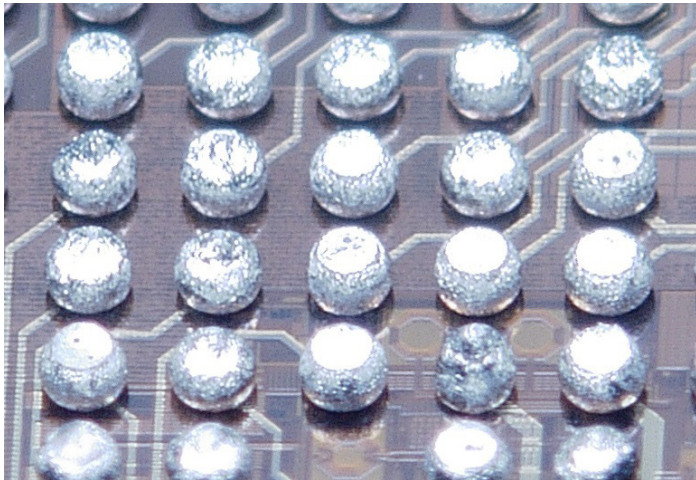


MICRONOX® MX2322

Semiconductor & Advanced Packaging 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. 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

pH	N/A (Solvent-Based)
FLASH POINT	208°F / 98°C
BOILING POINT	343°F / 173°C
WATER SOLUBLE	Partial
VOC, @ 100%	1001 g/L

TYPICAL PROCESSES

APPLICATION	For use in all immersion systems as received
CONCENTRATION	Use as Received
TEMPERATURE	<165°F / 74°C
RINSE	DI Water Rinse
DRY	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 5-50°C/41-122°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

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ENVIRONMENTAL, HEALTH AND SAFETY REGULATIONS

MICRONOX MX2322 is RoHS compliant and Halogen-free in accordance with RoHS Directive (EU) 2015/863 and EN 14582:2016. MX2322 has a negligible global warming potential, is not regulated as an Ozone Depleting Chemical in the United States, and is not listed as a Hazardous Air Pollutant. Refer to the Safety Data Sheet for more information.

REACH ✓ KYZEN is an ISO 9001:2015 Certified Company

COMPATIBILITY

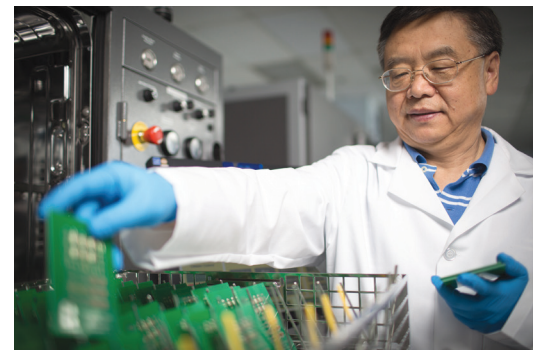
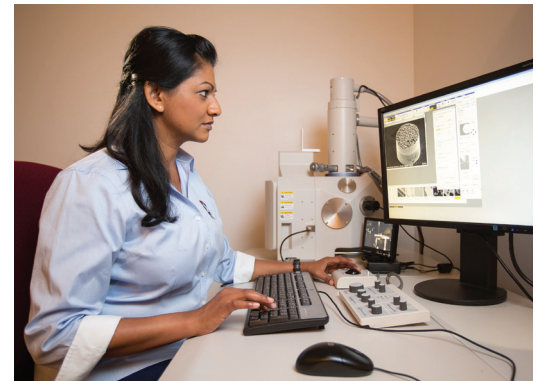
MICRONOX MX2322 is engineered to be compatible with leading cleaning systems and all materials commonly used in advanced packaging and electronic assembly manufacturing and cleaning processes. For specific compatibility information, please contact your KYZEN representative.

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.

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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