



EC2 Equipment Cleaner

DESCRIPTION

EC2 EQUIPMENT CLEANER is a highly concentrated cleaning solution for developing, etching and stripping machines. It will remove a variety of contaminants such as residues from dry film photo resists, solder masks, dyes and anti-foams. A regular maintenance program using EC2 will insure maximum efficiency from equipment with consistent high quality product and minimum down time.

OPERATING PARAMETERS

1. Drain chambers and flush with water
2. Check for clogged nozzles in both spray and rinse chambers
3. Fill unit with solution of EC2. A concentration of approximately 10% is recommended for weekly cleaning and 40-50% for 4-8 week maintenance.
4. Turn heater on and let solution recirculate for 1-2 hours at 120-140F.
5. Drain and rinse unit thoroughly
6. Refill unit with either a 5% solution of resist stripper or developer and run for 30 minutes at 120-140F.
7. Drain and rinse unit thoroughly
8. Replenish chambers with appropriate chemistry.

We recommend using another component called ECA – Equipment Cleaner Additive in solder mask developers. ECA should be used at a concentration of 1 – 5% along with the normal makeup of EC2. ECA helps to dissolve solder mask and antifoam components.

PHYSICAL PROPERTIES

Specific gravity	1.25-1.35
Appearance	Clear-Amber liquid
pH	>12
Odor	None
Flash Point	>200F

CONTROL PROCEDURES

EC2 solutions can be stored and reused until they no longer clean properly.

ANALYSIS

Not Applicable



SAFETY AND STORAGE

EC2 is caustic and should be handled with care. Avoid open flames Do not store in direct sunlight, high temperature or below freezing.

WASTE TREATMENT

Option 1:

1. Adjust pH to 8-9 with Sulfuric Acid
2. Add 6% by volume of WT430
3. Add 3% by volume of WT300
4. Add 0.25-1.0% by volume of WT130
5. Add polymer until desired flocculation
6. Check for metals. Add additional polymer as required.
7. Send the solution to a filter press. The liquid(supernatant) can go directly to the sewer.

Option 2:

Combine the EC-2 with spent dry film stripper and batch treat accordingly.

Option 3:

If no metals are present, adjust pH to proper limits and discharge directly to sewer.

Please ask a Florida CirTech technical sales rep. for more information regarding waste treatment of this chemistry and our complete line of waste treatment line if additional help or information is desired.

MISCELLANEOUS

Packaging comes in 5-gallon pails and 55-gallon drums. Consult MSDS sheet for additional information.