



Product Data Sheet

Date: 1/22/09
Supersedes: NEW
PRODUCT #: N8667

*Microstrip*TM *ONE*

Fine Line Resist Stripper

DESCRIPTION: A fully aqueous based resist stripper designed to remove the most tenacious resists. *Microstrip*TM *ONE* turns resist into fine particles to ensure the complete removal of it from extremely narrow line spacing (<4 mils) and from underneath over-plated areas. *Microstrip*TM *ONE* contains copper anti-tarnish agents for better etching characteristics.

BENEFITS:

- Complete removal of resist from trapped or over-plated areas
- Able to process the most difficult to remove resists
- Reduces scrap and re-work
- Able to strip fine-line work

SPECIFICATIONS:

Flash Point (TCC): >212°F
Appearance/Odor Clear/mild odor
VOC Content (EPA Method 24): 3.7 lbs./gal.

INSTRUCTIONS:

Concentration: 8-15 % Spray or Soak
Temperature: 110°-130°F

*Microstrip*TM *ONE* works best in spray mode, most preferably in a high pressure spray system, although it may also be used in soak mode. For best results, use spray pressures greater than or equal to 40 psi, preferably in excess of 60 psi. The stripper application should be followed by a high pressure water rinse at equivalent pressures. Fan nozzles are recommended in both spray applications.

Replenishment: *Microstrip*TM *ONE* can be replenished by monitoring the pH of the working solution, the panel count, or the conductivity. Whichever method of monitoring is used, replenishment should always be at or near the working solution concentration. It is recommended that chemistry-only adds be avoided except when making a small adjustment to the concentration. When setting up the feed and bleed, *Microstrip*TM *ONE* should be replenished at such a rate where the pH is maintained between 10.6 and 11.3.

Stripping speed and particle size will vary with type and thickness of photoresist, temperature, pH, concentration, type of equipment and application. Specific information on strip time, particle size and capacity is available from RBP Technical Service.

Filtration is recommended to remove resist particles and extend bath life. In spray applications it may be necessary to add a small volume of a RBP Chemical Technology proprietary antifoam to control excess foam.

Tanks and equipment can be constructed of stainless steel, PVC, or polypropylene. Heaters should be stainless steel or Teflon®.

CAUTIONS: *Microstrip™ ONE* is alkaline, contact with skin and eyes should be avoided. Goggles and gloves should be worn when handling this product. In case of contact with eyes, flush with water for at least 15 minutes and obtain medical assistance. For skin contact, rinse immediately with water, and wash with soap and water. Use in a well-ventilated area.

DISPOSAL: *Microstrip™ ONE* contains amine compounds which are metal complexing agents. Spent solutions should be segregated from waste streams being treated for heavy metals removal. Dispose of treated material in accordance with all local, state and federal regulations.

ANALYSIS: **Equipment required:**

10 ml pipette
50 ml burette
250 ml flask or 250 ml beaker
pH meter

Reagents required:

0.5N Hydrochloric acid standard solution
Methyl Orange indicator solution

Procedure:

1. Pipette a 10 ml sample of the working solution into a 250 ml flask or beaker.
2. Add 100 ml distilled water and mix.
3. Add 10-15 drops of methyl orange indicator solution
4. Titrate with 0.5N Hydrochloric acid until the color changes from yellow to red. Record mls used.

OR

Titrate to a pH end point of 3.3, using a pH meter. Record mls used.

Calculation: $(\text{mls of HCl}) * (\text{N of HCl}) * 46.5 \div (\text{Sample size in ml})$
 $= \% \text{ *Microstrip™ ONE* }$

This product should be used only for its intended purpose. The information stated above is based on our laboratory tests and experience, and is accurate to the best of our knowledge. Since actual use is beyond our control, the recommendations or suggestions are made without warranty, expressed or implied.