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Product Data Sheet

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PRODUCT #: N8676

ADF-14 BAT

Aqueous Resist Stripper With Corrosion Inhibitors

DESCRIPTION: A fully aqueous photoresist stripper with an additive that significantly reduces the attack on tin, tin/lead and copper, leaving the spent solution with lower metal levels. ***ADF-14 BAT*** provides fast strip speeds, produces filterable particles and contain no glycol ethers for a safer working environment. ***ADF-14 BAT*** contains copper brightening and antitarnish agents which produce a bright, uniform copper surface for automatic optical inspection and better uniformity in etching. For use in spray or soak applications.

BENEFITS:

- Superior protection for a wide variety of metal surfaces
- Reduces metals in spent solution for easier waste treatment
- Filterable particles for prolonged bath life
- No glycol ethers
- Completely removes resist from fine lines and spaces

SPECIFICATIONS:

Density:	1.03 gm/ml, 8.6 lbs./gal.
pH at 10% :	12.4
Flash Point:	>210°F (SCC)
VOC Content (EPA Method 24):	3.9 lbs./gal.

INSTRUCTIONS:

Concentration:	10-15% Spray or Soak
Temperature:	110°-130°F

Replenishment: ***ADF-14 BAT*** can be replenished by monitoring the pH of the solution. At pH 11, add 20% of the original make up volume of concentrate. For example, for a 50 gallon sump at 10% original concentration, add 1 gallon of ***ADF-14 BAT*** concentrate. The solution should be considered spent when replenishments exceed the original make up volume, or when resist re-deposits on boards. An alternate method of replenishment is to have a tank of solution at working concentration, and add it to the sump to maintain volume lost by evaporation and drag out.

Stripping speed and particle size will vary with type and thickness of photoresist, temperature, concentration, type of equipment and application. *Specific information on strip times, 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 ***ANTIFOAM BB*** at 0.1% by volume to eliminate excess foam.

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

CAUTIONS: *ADF-14 BAT* 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: *ADF-14 BAT* 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:** 2 ml pipette
50 ml burette
250 ml flask or 250 ml beaker
pH meter (optional)

Reagents required: 0.1N Hydrochloric acid standard solution
Methyl Orange indicator solution

Procedure:

1. Pipette a 2 ml sample of the working solution into a 250 ml flask or beaker.
2. Add 50-100 ml distilled water and mix.
3. Add 10-15 drops of Methyl Orange indicator solution.
4. Titrate with 0.1N hydrochloric acid until the color changes from yellow to red. Record mls used.

OR

Titrate to a pH end point of 4.0, using a pH meter. Record mls used.

Calculation: mls of HC1 X N of HC1 X 5.3 = Percent *ADF-14 BAT*

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.