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## Product Data Sheet

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**PRODUCT #: N8601**

# ***FLEXSTRIP***

Flex Circuit Resist Stripper with Antitarnish

**DESCRIPTION:** An aqueous photoresist stripper specifically formulated for flexible circuit stripping operations. ***FLEXSTRIP*** contains copper antitarnish agents providing a cleaner surface for subsequent flex material processing. ***FLEXSTRIP*** produces fast strip speeds while producing large particles suitable for filtration. It contains no glycol ether solvents for greater compatibility with flex materials and a safer working environment.

**BENEFITS:**

- **Economical-highly concentrated**
- **Compatible with most flex substrate materials**
- **High level of copper antitarnish agents for flex material processing**
- **Particle size ideal for filtration**

**SPECIFICATIONS:**

<b>Density:</b>	1.02 gm/ml, 8.5 lbs./gal.
<b>pH at 10% :</b>	12
<b>Flash Point (SCC):</b>	>210° F
<b>Shelf life:</b>	Indefinite
<b>VOC by EPA Method 24:</b>	4.6 lbs./gal.

**INSTRUCTIONS:**

<b>Concentration:</b>	10-15% with water
<b>Temperature:</b>	120° -140° F

Analyze fresh solution according to analysis procedure on reverse side.

Replenishment: ***FLEXSTRIP*** can be replenished by monitoring the pH of the solution. At pH 10.5, add 20% of the original make up volume of concentrate. For example, for a 100 gallon sump at 10% original concentration, add 2 gallons of ***FLEXSTRIP*** 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 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.

Mechanical agitation will enhance stripping speed and effectiveness. Filtration or mechanical separation of particles is recommended to increase solution life and prevent

re-deposition of particles.

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

**CAUTIONS:** *FLEXSTRIP* 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:** *FLEXSTRIP* 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:**

<b>Equipment required:</b>	2 ml pipette 50 ml burette 250 ml flask or 250 ml beaker pH meter (optional)
<b>Reagents required:</b>	0.1N Hydrochloric acid Methyl Orange indicator

**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:**  $\text{mls of HCl} \times \text{N of HCl} \times 4.4 = \text{Percent } \mathbf{FLEXSTRIP}$

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.