



Product Data Sheet

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PRODUCT #: N8661 & N8662

DUAL STRIP and DUAL STRIP BAT

Resist and Ink Stripper

DESCRIPTION: Formulated to remove fully aqueous dry films and screen ink resists in soak or spray applications. *DUAL STRIP* will generally break dry films into particles suitable for filtration. *DUAL STRIP* has a low VOC content for reduced air emissions.

DUAL STRIP BAT contains additional copper brightening and antitarnish agents that produce a bright, uniform copper surface for automatic optical inspection and better etching characteristics.

BENEFITS:

- Strips dry film and ink resists in the same solution
- Low VOC content for reduced air emissions
- Filterable particles for extended bath life

<i>SPECIFICATIONS:</i>		<u><i>DUAL STRIP</i></u>	<u><i>DUAL STRIP BAT</i></u>
Density:		1.10 gm/ml, 9.2 lbs./gal.	1.06 gm/ml, 8.8 lbs./gal.
pH at 10% :		13.0	12.7
Flash Point:		>210°F (TCC)	204°F (TCC)
VOC Content (EPA Method 24):		2.7 lbs./gal.	3.9 lbs./gal.
Shelf life:		Indefinite	Indefinite

<i>INSTRUCTIONS:</i>	Concentration:	10% by volume
	Temperature:	120°-140°F

Analyze new solution according to analysis on reverse side. Maintain the pH above 11.5 with additions of *DUAL STRIP* concentrate. 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 Chemelex® 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: *DUAL STRIP* 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. Refer to Material Safety Data Sheet for further information.

DISPOSAL: *DUAL STRIP* contains amine compounds that are metal complexing agents. Spent solutions should be segregated from waste streams being treated for heavy metals removal.

Dispose of treated materials in accordance with all local, state and federal regulations.

ANALYSIS:

Equipment required:	2 ml pipette 50 ml burette 250 ml Erlenmeyer flask Distilled water pH meter (optional)
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Reagents required:	0.1N Hydrochloric acid Methyl Orange indicator
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Procedure:

1. Pipette a 2 ml sample into a 250 ml Erlenmeyer flask.
2. Add 50 ml of distilled water and mix.
3. Add 10 drops of Methyl Orange indicator and mix.
4. Titrate with 0.1N HCl until the color changes from yellow to orange.

OR

Titrate with 0.1N HCl to a pH of 4.0 using a pH meter.

Calculation: ml of HCl X N HCl X 5.8 = Percent *DUAL STRIP*

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.