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Product Data Sheet

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PRODUCT #: N8330

M-STRIP

Peroxide-Based Tin/Lead Stripper

DESCRIPTION: Formulated to provide the ultimate in speed for automated tab plating machines while maintaining excellent capacity. ***M-STRIP*** will remove 0.5 mil of unfused tin/lead within 20 seconds in spray application.

BENEFITS:

- **Capacity up to 11-13 ounces tin/lead per gallon**
- **Fast - removes 0.5 mil of tin/lead within 20 seconds**

SPECIFICATIONS:

Density:	1.12 gm/ml, 9.3 lbs./gal.
Flash Point:	None
Shelf life:	6 months

INSTRUCTIONS: Use a supplied. After stripping, rinse well with water. To assure complete removal of all insoluble lead salts, follow with ***OXIT***®. Maintain peroxide concentration according to analysis on reverse side.

Cooling will be necessary to prevent exothermic decomposition. Use cooling coils or a jacketed tank to maintain temperature below 90ºF.

Tanks or equipment should be constructed of CPVC, PVC, polyethylene or Teflon®. Do not use or store in metal or glass containers.

CAUTIONS: ***M-STRIP*** is exothermic unless adequate volume per surface area relationship is maintained. Although this does not reflect the total capacity, a maximum load rate of 25 square inches per gallon per 2 minute time period should be maintained. In addition, the temperature should be limited to a maximum of 90ºF in order to reduce fuming and possible over-aggressive action.

If autodecomposition should occur, flood with cold water, and do not handle until solution reaches ambient temperature.

Avoid contact with skin and eyes. Wear safety glasses or goggles, gloves and protective clothing when handling this product. In case of contact with eyes, flush immediately with water for at least 15 minutes, and obtain medical attention. For skin contact, flush immediately with water. Use adequate ventilation. Refer to Material Safety Data Sheet for further information.

DISPOSAL: For disposal and waste treatment, treat spent solution for soluble tin/lead salts and insoluble lead salts. Copper, ammonium, and fluoride compounds will also be present. Lime precipitation will remove the majority of these, but secondary treatment will be necessary to remove residual metals. For example, reduction with ferrous sulfate or precipitation with insoluble starch xanthate should be done before discharge. *For more specific waste treatment procedures, contact RBP's Technical Service Department.*

ANALYSIS:

Hydrogen Peroxide Analysis

Equipment required: 50 ml buret
1 ml pipet, polypropylene or polycarbonate
500 ml Erlenmeyer flask

Reagents required: **50% Sulfuric Acid Solution:** Carefully dilute reagent sulfuric acid 50% by volume by adding carefully to distilled water.
Ferroin Indicator: Mix 1.285g of 1, 10-phenanthroline with 0.695 g of ferrous sulfate heptahydrate, and dissolve in 100 ml distilled water.
Standard Ceric Solution-0.1N: Slowly add 30 ml reagent sulfuric acid to 500 ml distilled water. Add 63.25 g of Ceric Ammonium Sulfate dehydrate and stir until dissolved. Cool to room temperature, filter if turbid, and dilute to 1 liter in a volumetric flask.

Procedure:

1. Pipet a 1 ml sample into a 500 ml Erlenmeyer flask containing 300 ml distilled water. Swirl to mix.
2. Add 5 ml of 50% sulfuric acid solution and mix.
3. Add 1 ml Ferroin indicator.
4. Titrate with standard Ceric solution from orange-red to a pale blue end point.

Calculation: % of 50% H_20_2 by weight = $\frac{(0.2692)\ (\text{ml titrant})}{\text{ml of sample}}$

Calculation will be 14% for a new solution. Make additions for speed if less than 10%. Use 50% hydrogen peroxide for additions.

$$\frac{12 - \%\ \text{peroxide from analysis}}{100} \times \text{Volume of tank in gallons} = \text{Volume of 50\% hydrogen peroxide to add}$$