



RBP Chemical Technology, Inc.

150 S. 118th ST. • P.O. Box 14069
Milwaukee, WI 53214-0069
www.rbpchemical.com
corporate: 800-558-0747
fax: 414-258-7908

Product Data Sheet

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PRODUCT #: N8111

SELECT STRIP™ PLUS

Peroxide-based Tin/Lead Stripper

DESCRIPTION:

A unique, fast-acting, single step, peroxide based stripper for tin/lead or tin. It has a mild etching action on copper that will effectively clean copper for subsequent processing. ***SELECT STRIP PLUS™*** is a non-fuming odorless stripper. Designed for conveyORIZED whole panel stripping in spray applications.

BENEFITS:

- **Economical, high speed stripper**
- **High capacity - 16-18 ounces of tin/lead per gallon**
- **Fast - strips .5 mil fused tin/lead in 40-60 seconds, 25-45 seconds for unfused**

SPECIFICATIONS:

Density: 1.13 gm/ml, 9.4 lbs./gal.
Flash Point: None
Shelf life: 6 months

INSTRUCTIONS:

Use as supplied. After stripping, rinse well with water. To assure complete removal of all all water-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 90°F.

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

CAUTIONS:

SELECT STRIP PLUS™ 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 90°F 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 with 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.

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.
Ferriin Indicator: Mix 1.285 g 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 dihydrate 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 Ferriin indicator.
4. Titrate with standard Ceric solution from orange-red to a pale blue end point.

Calculation: % of 50% H₂O₂ 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.

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

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.