



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 #: N8120

SOLDER CONDITIONER 417

Acidic Tin/Lead Cleaner

DESCRIPTION:

An acid tin/lead cleaner designed to remove salt residues that remain after alkaline etching. The removal of these salts is essential to ensuring good fusing and a bright finished solder surface. ***SOLDER CONDITIONER 417*** is effective at eliminating re-deposition of tin on copper surfaces and allows re-etching of panels, thus minimizing rejects. Effective for both soak and spray applications. ***SOLDER CONDITIONER 417*** is an excellent pre-cleaner prior to fusing for eliminating oxides and enhancing solder edge coverage on circuits.

BENEFITS:

- **Removes alkaline etching salts**
- **Provides great cosmetics**
- **Economical**

SPECIFICATIONS:

Density:	1.03 gm/ml, 8.6 lbs./gal.
Flash Point (TCC):	None
pH @ 10%:	1.3
Shelf life:	One year

INSTRUCTIONS:

SOLDER CONDITIONER 417 is used as supplied; it can be diluted if needed. It can be used at room temperature, but best results are obtained at 100°-120°F. In spray application, a dwell time of 30 seconds is usually sufficient. In soak application, one minute immersion with gentle agitation is recommended. Follow with thorough rinsing and drying to prevent staining and oxidation.

CAUTIONS:

Use protective handling equipment such as glasses or goggles, gloves and protective clothing when handling this product. In case of skin contact, flush with water. For eye contact, flush immediately with water and obtain medical assistance. Refer to Material Safety Data Sheet for further information.

DISPOSAL:

Analyze spent solutions for tin and lead content. Neutralize with caustic to precipitate out metals. It can be treated in a deplate system.

SOLDER CONDITIONER 417
Concentration Analysis

ANALYSIS:

Equipment required: 20 ml pipet
50 ml graduated cylinder
250 ml beaker or Erlenmeyer flask
50 ml buret
Dropper

Reagents required: 1.0N Sodium Hydroxide Solution
Phenolphthalein indicator

Procedure:

1. Pipet a 20 ml sample into beaker or flask.
2. Add 30 ml of distilled water and 5 drops of indicator.
3. Titrate with 1.0N sodium hydroxide to a pale pink color that lasts at least 20 seconds.

Calculation:

mls of NaOH X N of NaOH X 5.6 = Percent ***SOLDER CONDITIONER 417***

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.