



Product Bulletin

Better Chemistry. **Better Business.**

Solder Cleaner

Product Code: 2704006
Revised Date: 07/19/2006

Solder Cleaner 2000

Solder Cleaner 2000 is an acidic liquid product used for cleaning, by immersion, neutralizing solder circuit boards after the alkaline etching of the copper, or for cleaning and reactivating the solder surface of boards which were stored for a period.

ADDITIONAL APPLICATIONS

Solder Cleaner 2000 will remove solder flux from soldered areas. In the custom jewelry industry **Solder Cleaner 2000** eliminates the dull/black spot from the earring posts prior to electroplating.

NOTE: Solder Cleaner 2000 should not be used in a pressure spray unit because it will foam excessively.

OPERATING CONDITIONS BY IMMERSION

Concentration: use as received.
Temperature: room.
Time: 30 to 90 seconds.
Equipment: polypropylene, polyethylene or rubber lined tanks.

Solder Cleaner 2000 brightens and activates the solder plate by removing a minute layer of the solder's surface. The rate of removal averages:

0.000000056 in/min (0.000056 mils/min)

SPECIAL HANDLING

The temperature of **Solder Cleaner 2000** should be kept above 32f (0c) to prevent salting out. However, if the product does salt out it will re-dissolve when the temperature exceeds 32f (0c).



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CONTROL PROCEDURE

1. Place about 90 ml of water into a 250 ml erlenmeyer flask.
2. Into the water pipette 10 ml of **SOLDER CLEANER 2000**.
3. Add 6 to 8 drops of phenolphthalein indicator.
4. Titrate rapidly with 1.0 n sodium hydroxide solution to a definite pink color. The color will fade rapidly.
5. Calculations:

MLS of NAOH Titrated x 10.3 = % By Volume Cleaner In Tank

CAUTION

Solder Cleaner 2000 is an acidic product and should be handled accordingly. Avoid skin, eye and oral contact. Wear protective clothing, gloves and goggles when handling the product. Flush exposed areas immediately with clean, cold water. Contact a doctor immediately in case of injury.

WASTE DISPOSAL

Neutralize **Solder Cleaner 2000** to a ph between 6 to 8 with soda ash or caustic soda. When adding either of the alkaline materials, add slowly to avoid splashing. Do not use a glass electrode to check for the ph range.

Neutralization of **Solder Cleaner 2000** will precipitate all of the tin and most of the lead. Small quantities of sodium sulfite may have to be added to precipitate the remaining lead. After all of the metallics have been precipitated, the solution may be discharged to a chemical sewer or disposal unit.

WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.