

# PRODUCT Data Sheet

## PCB Etchant Solution

### 1. Part No.:

CL-ETCH-16

### 2. Container Size:

16 oz. (473 ml)



### 3. Product Description:

CAIG Labs' PCB Etchant Solution is a great product for any one working on Printed Circuit Board projects. We have already done all the mixing for you and this solution is ready for use. If circuit boards are not your thing, it can also be used for etching either metals or ceramics.

You can etch a PCB by yourself, in a lab or even at home, through a simple and inexpensive production process. It makes sense when you wish to produce a single or a very small number of boards and want to avoid manufacturing costs.



### 4. Features/Benefits:

CAIG Labs' PCB Etchant Solution utilizes ferric chloride, which is the most widely used etchant for chemical etching facilities because of the relatively low cost, safety, consistency in etching performance, and versatility in etchable materials.

The etching process is therefore effective for a small workshop and great for:

**Simple Boards** - If all you need is a rough board for a limited application, it will certainly cost more to have a third party make it, it will likely take longer and be much more trouble than it's worth. Avoid the nonsense and make it yourself.

**Total Control** - Do you want to make a circuit board out of unusual or extraordinary materials... Either your own creativity or the demands of an application... Do it yourself and the limitations disappear!

**Rapid Prototyping** - It takes less than an hour to print a PCB yourself, so if you're going through a lot of designs, why wait a week or two for every new prototype?

**Art Projects** - Board manufacturers have trouble with weird shapes and cutouts, and will charge more for such designs. Making your own PCBs opens up a whole world of unique materials, shapes and applications.

It's really fun and rewarding to make your own circuit boards: Go for it and Give it a Try!



Home of the DeoxIT® family of  
Environmentally-Safer Contact Cleaners and  
Connector Enhancing Treatments  
Made in USA



Audio/Video



Computers



Automotive



Communications



Marine



Electrical



Energy



Photography



Security



Medical



Avionics

### 5. Directions for Use:

1. Place PC board in glass, plastic or rubber tray.
2. Pour in Etchant Solution to a depth of 1/4".
3. Agitate liquid back and forth to produce an etched board in about 20 minutes.
4. Etching may take longer if solution is cool.
5. Continue agitation until all unwanted copper is etched away.
6. Rinse etched board under water to stop chemical reaction.

### 6. Shipping and Additional Information:

Hazardous: ORMD

### 7. Other Information:

RoHS Compliant: YES

VOC Compliant: YES

**SDS Link, CL-ETCH-16** <https://goo.gl/MJ6ohh>

CAIG Essential Guide Link: <http://store.caig.com/s.nl/it.l/id.73/f>

### 8. MANUFACTURER DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, neither CAIG Laboratories, Inc., or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist. All service performed on internal parts and equipment should be provided by qualified technicians.

### 9. Contact Information:



**Website:** [www.caig.com](http://www.caig.com)  
[www.deoxit.com](http://www.deoxit.com)

**General email:** [info@caig.com](mailto:info@caig.com)

**Technical email:** [tech@caig.com](mailto:tech@caig.com)

#### North America (Headquarters):

**CAIG Laboratories, Inc.**  
 12200 Thatcher Court  
 Poway, CA 92064 USA  
 Tel: (858) 486-8388  
 Fax: (858) 486-8398

#### Distributors (Domestic & International):

<http://store.caig.com/s.nl/sc.15/f>



#### CAIG Laboratories, Inc.

12200 Thatcher Court, Poway, CA 92064 U.S.A.

**P:** 858/486-8388 | **E:** [info@caig.com](mailto:info@caig.com)

**WEB:** [www.caig.com](http://www.caig.com) | [www.deoxit.com](http://www.deoxit.com)



Made in USA