



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# CHEMTRONICS®

## Technical Data Sheet

### CircuitWorks® Lead-Free Flux

#### PRODUCT DESCRIPTION

CircuitWorks® Lead-Free Flux is designed specifically for all lead-free soldering. The convenient quart size containers offers a more convenient package small OEM's and board shops. The Lead-Free Flux quickly applies a noncorrosive, halide-free, No Clean flux which meets Bellcore TR-NWT-000078 and passes IPC SF-818 for surface insulation resistance. Instant wetting action provides thorough deoxidation of metallic surfaces providing the best possible surfaces for lead-free soldering.

- Flux is noncorrosive and halide-free
- Can be used for soldering with lead-free or Tin/Lead solders
- Excellent material compatibility
- Fast drying
- RoHS compliant
- High thermal stability

#### TYPICAL APPLICATIONS

CircuitWorks® Lead-Free Flux can be used in all soldering applications including:

- Printed Circuit Boards
- Chip Carriers
- Surface Mount Device Pads
- Switches and Sockets

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Solids Content, wt/wt	12.0
Flux Type	No Clean Flux ROLO
Flash Point (TCC)	63 °F (17 °C)
Vapor Density (air=1)	> 1
Appearance	Clear Liquid
Acid Number (mg KOH/g)	27.0
Odor	Alcohol
Shelflife	2 years

#### COMPATIBILITY

CircuitWorks® Lead-Free Flux is generally compatible with most materials used in the electronics industry. As with any fluxing agent, material compatibility should be determined on a non-critical area prior to use.

<b>Performance</b>	
<b>Test</b>	<b>Results</b>
Silver Chromate Method IPC-TM 650 Test Method 2.3.33	PASS
Copper Corrosion Test IPC-TM 650 Test Method 2.6.15	PASS
Copper Mirror Test IPC-TM 650 Test Method 2.3.32	No Evidence of Corrosion
J-STD-004 Surface Insulation Resistance Testing IPC-TM 650 Test Method 2.6.3.3	PASS

## **USAGE INSTRUCTIONS**

For industrial use only.

Read MSDS carefully prior to use.

Can be sprayed or hand applied to the surface being soldered. After soldering, wipe area around solder joint using a ControlWipe™ to remove unreacted flux.

No Clean flux residues are designed to be left on the board, however, they can be easily removed with Chemtronics Flux-Off® Lead-Free Flux Remover (ES897B or ES1697) or CircuitWorks® Lead-Free Flux Remover Pen (CW9400).

## **AVAILABILITY**

**CW3220**                      32 ounces (1 quart)

Also available:

**CircuitWorks® Lead-Free Flux Dispensing Pen**  
CW8400                      9 gm (0.32 oz)

**CircuitWorks® No Clean Flux Dispensing Pen**  
CW8100                      9 gm (0.32 oz)

**CircuitWorks® Rosin Flux Dispensing Pen**  
CW8200                      9 gm (0.32 oz)

### **DISTRIBUTED BY:**

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