

## Description

The 836-P *No Clean Flux Pen* contains a homogenous mixture of halogen-free, low solids, organic flux. Exhibits excellent wetting and fluxing activities with essentially no residue left on the assembly after soldering. 836-P *No Clean Flux Pen* may be used for both leaded and lead-free applications. A chiseled tip provides exact delivery of flux to surface.

## Application

The 836-P pen is designed to dispense flux in a precise application. Excellent for prototyping and rework/repair on printed circuit boards. Works well on chip carriers, heat sinks, surface mounted device pads, switches and sockets.

## Features and Benefits

- **Halogen-free**
- **Excellent wetting**
- **Bright, shiny solder joints**
- **Low Residue**
- **Rosin/Resin free**
- **Compatible with Lead-Free & Leaded Solder Systems**

## Flux Paste Properties

<i>Flux Properties</i>	<i>Method</i>	<i>Value</i>
Flux type		Organic
Flux Activity		Low
Halides %(wt)		0%
Flux Classification	J-STD-004	ORL0
Acid number		28-30
Copper Mirror	IPC-TM-650 2.3.32	Pass (no complete breakthrough)
Corrosion Test	IPC-TM-650 2.6.15	Pass (non-corrosive)
Spot Test		Pass (no color change)
Silver Chromate	IPC-TM-650 2.3.33	Pass (no discoloration)
Surface insulation resistance (SIR)		
SIR, JSTD-004	IPC-TM-650 2.6.3.3	1 × 10 <sup>11</sup> Ω
Bellcore compliant		Yes
Cleaning requirements	—	None
<i>Physical Properties</i>	<i>Method</i>	<i>Value</i>
Color		Colorless
Solids%		3.0%–3.6%
Density		0.81
Flash Point	Closed cup	12 °C [53 °F]

## Storage and Shelf Life

Store at around room temperature and protect from direct heat or sunlight.

<i>Properties</i>	<i>Value</i>
Shelf Life after DOM	2 years
Storage Temperature	18 to 27 °C [65 to 80 °F]

DOM = date of manufacture

## Cleaning

If removal is desired, a solvent system like the *MG 4140* or *MG 413B* can be used. For best results, warm the cleaning solution to about 40 °C [104 °F].

## Health and Safety

Please see the 836 **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

**Environmental Impact:** The volatile organic content is 50% by EPA and WHMIS standards.



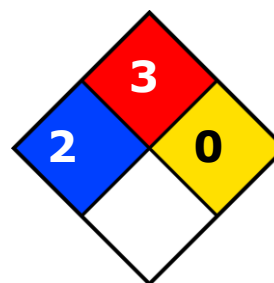
This product meets the European Directive 2011/65/EU Annex II (ROHS); recasting 2002/95/EC.

**Health and Safety:** Avoid breathing fumes. Wash hands thoroughly after use. Do not ingest.

### HMIS® RATING

<b>HEALTH:</b>	<b>2</b>
<b>FLAMMABILITY:</b>	<b>3</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

### NFPA® 704 CODES



*Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

## Application Instructions

Apply flux by direct dispensing via the pen.

## Packaging and Supporting Products

<i>Cat. No.</i>	<i>Form</i>	<i>Net Volume</i>	<i>Net Weight</i>
<b>836-P</b>	Pen	10 mL 0.34 fl oz	8 g 0.28 oz

### Suitable Flux Cleaners

- *Heavy Duty Flux Remover*: Cat. No. 413B-1L, 413B-4L, 413B-20L, 413B-425G
- *Flux Remover for PC Boards*: Cat. No. 4140-P, 4140-400G, 4140-1L, 4140-4L, 4140-20L

## Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

Phone: 1-800-340-0772 (Canada, Mexico & USA)  
1-905-331-1396 (International)

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Burlington, Ontario, Canada  
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9347-193rd Street  
Surrey, British Columbia, Canada  
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## Warranty

*M.G. Chemicals Ltd.* warrants this product for 12 months from the date of purchase by the end user. *M.G. Chemicals Ltd.* makes no claims as to shelf life of this product for the warranty. The liability of *M.G. Chemicals Ltd.* whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

## Disclaimer

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. *M.G. Chemicals Ltd.* does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.