Water Soluble Flux Pen 837-P Technical Data Sheet

837-Pen

Description

The 837-P Water Soluble Flux Pen is a neutral, water-removable soldering flux. The organic activating system in 837-P has a neutral pH at room temperature and becomes activated at soldering temperature. The 837-P flux is formulated to be effective over a broad preheat range and may be used for both leaded and lead-free applications. It cleans easily with hot or cold water. A chiseled tip provides exact delivery of the flux to the surface.

Application & Usages

The 837-P pen is designed to dispense flux in a precisely. It is excellent for prototyping and rework/repair of printed circuit boards. It works well on chip carriers, heat sinks, surface mounted device pads, switches and sockets.

Features and Benefits

- · Good soldering properties
- Yields bright, shiny joints
- · Excellent wettability
- · Cleans with water
- Neutral pH
- RoHS compliant

Flux Paste Properties

Flux Properties	Method	Value
Flux Classification Flux type Flux Activity Halides %(wt) Copper Mirror Corrosion Test Surface insulation resistance (SIR)	J-STD-004 IPC-TM-650 2.3.32 IPC-TM-650 2.6.15 IPC-TM-650 2.6.3.3	ORH1 Organic High $2.2\% \pm 0.3\%$ Complete removal of copper film Pass (Cleaned) $1.8 \times 10^{10} \Omega$
Physical Properties Color pH Solids% Density Flash Point	Method IPC-TM-650 2.3.34 ASTM D 4212 Closed cup	Value Colorless 7.3 ±0.5 17.5% ±1% 0.85 12 °C [54 °F]

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Storage and Shelf Life

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

Properties	Value
Shelf Life after DOM	2 y
Storage Temperature	18 to 27 °C
	[65 to 80 °F]

DOM = date of manufacture

Health and Safety

Please see the 837-P **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

Environmental Impact: The volatile organic content is 72% 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

HEALTH:	2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

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 directly with the pen on the joint to be soldered.

Cleaning

Use hot or cold water to remove flux residues. A water spray pressure of 20 to 30 lb/in² (psi) is recommended. Use deionized water as a final rinse to meet MIL-28809A cleaning requirements.

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Packaging and Supporting Products

Cat. No.	Form	Net Volume		Net Weight	
837-P	Pen	10 mL	0.33 fl oz	8.4 g	0.27 oz
837LFWS-1L	Liquid	1 L	33 fl oz	846 g	1.87 lb
837LFWS-4L	Liquid	4 L	1.06 gal	3.38 kg	7.46 lb

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.

Email: support@mgchemicals.com

Phone: 1-800-340-0772 (Canada, Mexico & USA)

1-905-331-1396 (International) 1-905-331-2862 or 1-800-340-0773

Mailing address: Manufacturing & Support

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Head Office

L7L 5R6 V4N 4E7

Warranty

Fax:

M.G. Chemicals Ltd. warranties 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.

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