Liquid Flux: Lead Free, No Clean
836LFNC Technical Data Sheet

Description

The 836LFNC *Liquid Flux: Lead Free, No Clean* contains a homogenous mixture of halogen-free, low-solids organic flux. It exhibits excellent wetting and fluxing activities, and it leaves essentially no residue on the assembly after soldering. The 836LFNC flux may be used for both leaded and lead-free applications. A chiseled tip provides exact delivery of the flux to the surface.

Application & Usages

The 836LFNC is excellent for prototyping and rework/repair of printed circuit boards. It works well on switches, sockets, heat sinks, chip carriers, and surface mounted device pads.

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

Flux Properties	***Method***	***Value***
Flux type		Organic
Flux Activity		Low
Halides %(wt)		<0.05%
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—Fluorides		Pass (no color change)
Silver Chromate—Chlorides + Bromides	IPC-TM-650 2.3.33	Pass (no discoloration)
Surface insulation resistance (SIR)		
SIR, J-STD-004	IPC-TM-650 2.6.3.3	>1 × 10^{11} Ω
Bellcore compliant		Yes
Cleaning requirements	—	None

Physical Properties	***Method***	***Value***
Color		Colorless
Solids%		3.0%–3.6%
Density		0.80
Flash Point	Closed cup	12 °C [53 °F]

Date: 12 February 2016 / Ver. 1.00

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

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 836LFNC **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.

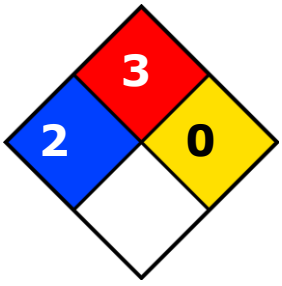
This product meets the European Directive 2011/65/EU Annex II (ROHS); recasting 2002/95/EC.

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

HMIS® RATING

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 on the intended surface via dip, spray, or brush application.

Packaging and Supporting Products

Cat. No.	*Form*	*Net Volume*		*Net Weight*	
836-P	Pen	10 mL	0.33 fl oz	8.0 g	0.25 oz
836LFNC-1L	Liquid	1 L	33 fl oz	800 g	1.7 lb
836LFNC-4L	Liquid	4 L	1.06 gal	3.22 kg	7.1 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

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Warranty

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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