Heavy Duty Flux Remover
413B Technical Data Sheet

Description

The 413B *Heavy Duty Flux Remover* aerosol is specially formulated to dissolve and remove the most stubborn, encrusted, hard, baked-on fluxes and residues left on parts after soldering. It penetrates quickly to remove non-ionic and ionic contaminants left on the non-component side of circuit boards. It can also work aggressively on isolated and hard to reach areas requiring spot cleaning. It is also offered in liquid formats.

Applications & Usages

It is great for removing rosin, non-rosin, no-clean fluxes, non-ionic and ionic contamination.

Benefits and Features

- **RoHS Compliant**
- **Quickly dissolves burnt on flux**
- **Fast dry time**
- **Zero residue**

CARB COMPLIANT
Categories & Limit:
Electronic Cleaner 75%

Usage Parameters

Properties	*Value*
Shelf Life	5 y

Temperature Ranges

Properties	*Value*
Storage Temperature Limits [a)]	-20 to 40 °C [-4 to 104 °F]

a) Storage below zero is not necessary. Cool, dry, and well ventilated area recommended.

Properties

Physical Properties	*Method*	*Value*
Odor	—	Ethereal
Color	Visual	Colorless
Specific gravity @25 °C [77 °F]	Literature	0.83 g/mL
Flash Point	"	-18 °C [-0.4 °F]
Boiling Point	"	≥56 °C [≥132 °F]
Auto-ignition	"	425 °C [797 °F]
Water miscibility	Literature	Partially soluble

Date: 18 January 2017 / Ver. 1.01

Compatibility

It is generally compatible with plastics, seals, PCB components, paints, rubbers, and plant fibers.

Health, Safety, and Environmental Awareness

Please see the 413B-Aerosol **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

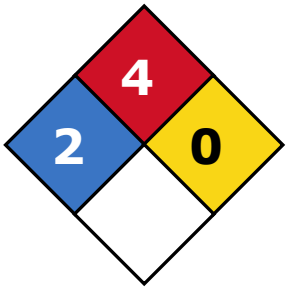
Environmental Impact: The VOC (Volatile Organic Compound) content is 53% [437 g/L] by EPA and WHMIS standards.

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

HMIS® RATING

HEALTH:	**2**
FLAMMABILITY:	**4**
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)

Health and Safety: The 413B is flammable and shouldn't be used in the presence of open flames or other ignition source. Keep container closed. Avoid prolonged breathing of vapors. Use with adequate ventilation.

Application Instructions

Follow the procedure below for best results.

To clean residues in aerosol format

1. Spray flux remover onto the flux and brush with a hog hair cleaning brush.
2. Hold the board vertically and rinse liberally until the flux remover runs off the board. Hold the board so that wash flows along the shortest component-free path.

NOTE: Immediately after spot cleaning with the 413B, it is recommended to rinse the entire board with deionized water, test cleanliness, and dry. This is to ensure that the board is clean enough for your application.

TIP!
Ensure the dissolved solids are rinsed off completely before the flux remover evaporates to prevent solids re-deposits.

Packaging and Supporting Products

Cat. No.	*Packaging*	*Net Volume*		*Net Weight*		*Packaging Weight*	
413B-425G	Aerosol	498 mL	16.8 fl oz	425 g	14.9 oz	5.4 kg [a)]	11.9 lb [a)]
413B-1L	Can	945 mL	31.9 fl oz	784 g	1.72 lb	5.4 kg [b)]	11.9 lb [b)]
413B-4L	Can	3.78 L	3.99 qt	3.13 kg	6.91 lb	3.6 kg	7.94 lb
413B-20L	Pail	18.9 L	5.0 gal	15.6 kg	34.5 lb	17.6 kg	38.8 lb

TBD = To be determined
a) Case pack of 10
b) Case pack of 5

Supporting Products

- *Acetone:* Cat. No. 434-1L, 434-4L
- *Hog Hair Cleaning Brush*: Cat. No. 852
- *Large Hog Hair Cleaning Brush*: Cat. No. 853

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)
Fax: +(1) 905-331-2862 or +(1) 800-340-0773

Mailing address:

Manufacturing & Support
1210 Corporate Drive
Burlington, Ontario, Canada
L7L 5R6

Head Office
9347–193rd Street
Surrey, British Columbia, Canada
V4N 4E7

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.

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.

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9