



Flux Remover for PC Boards 4140 Technical Data Sheet

Description

The 4140 Flux Remover for PC Boards is a blend of ethyl alcohol, isopropanol, and ethyl acetate that is an eco-friendly, dry cleaning solvent. It has a non-corrosive and non-conductive formulation with a moderate dry time.

Applications & Usages

Since the 4140 is safe for most plastics, seals, heat sinks, and printed circuit board components, it is used heavily in the electronics industry. It is great for removing rosin, non-rosin, no-clean fluxes, and ionic contamination.

Benefits and Features

- **Suitable for Use in Food Facilities as a Non-Food Chemical**—Canadian and NFS recognition letters available on request
- **RoHS Compliant**
- **Low odor**
- **Safe on most plastics**
- **Moderate dry time**
- **Zero residue**

Usage Parameters

<i>Properties</i>	<i>Value</i>
Shelf Life	5 y

Temperature Ranges

<i>Properties</i>	<i>Value</i>
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

<i>Physical Properties</i>	<i>Method</i>	<i>Value</i>
Odor	—	Mild alcohol
Color	Visual	Colorless
Specific gravity @25 °C [77 °F]	Literature	0.79 g/mL
Flash Point	"	13 °C [55 °F]
Boiling Point	"	≥78 °C [≥172 °F]
Auto-ignition	"	≥363 °C [685 °F]
Viscosity	ASTM D445	2.4 cP
Water miscibility	Literature	Soluble

Compatibility

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

Health, Safety, and Environmental Awareness

Please see the 4140-Aerosol **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

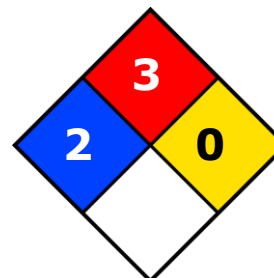
Environmental Impact: The VOC (Volatile Organic Compound) content is 70% [554 g/L] by EPA and WHMIS standards.

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

HMIS® RATING

HEALTH:	2
FLAMMABILITY:	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)

Health and Safety: The 4140 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. Ensure the dissolved solids are rinsed off completely before the flux remover evaporates to prevent solids re-deposits.
3. Hold the board vertically and rinse liberally until the flux remover runs off the board.



ISO 9001 Registered Quality System.
Burlington, Ontario, Canada QMI File # 004008

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4140-Aerosol

Packaging and Supporting Products

Cat. No.	Packaging	Net Volume		Net Weight		Packaging Weight	
4140-400G	Aerosol	453 mL	15.3 fl oz	400 g	14.1 oz	4 kg ^{a)}	8.82 lb ^{a)}
4140-P	Pen	11.5 mL	0.39 fl oz	9.10 g	0.32 oz	0.04 kg	0.09 lb
4140-1L	Bottle	1 L	1.05 qt	791 g	1.74 lb	5.5 kg ^{b)}	12.2 lb ^{b)}
4140-4L	Jug	4 L	1.06 gal	3.16 kg	6.98 lb	3.63 kg	8.0 lb
4140-20L	Pail	20 L	5.34 gal	15.8 kg	34.8 lb	17.2 kg	38 lb

a) Case pack of 10

b) Case pack of 6

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.

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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.

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