



# Precision-V Universal Cleaner

1651

Flux removers (defluxers) remove flux residues and other contaminants left by manufacture, rework, or repair of printed circuit boards. Residues from higher, leadfree temperatures are more baked on and harder to clean. Techspray flux removers have been proven very effective at removing fluxes baked on at leadfree temperatures.



## Non-flammable, powerful & high precision cleaner

Formulated to reduce VOCs within your facility. Ideal for aviation and other applications where strict VOC caps apply (based on EPA VOC exemptions). Bulk chemicals ideal for cold/bucket cleaning and ultrasonics (not intended for vapor degreaser).

- Powerful cleaner
- Non-flammable
- Non-ozone depleting
- Safe on electronics
- Rapid evaporation
- Zero residue
- Safe on most plastics
- EPA SNAP approved
- Low VOC
- Dielectric strength 14 kv

Licensing: The use of Precision-V products for cleaning are subject to U.S. patent no. 5,902,412 and use is restricted by Techspray.

### Product Packaging

**1651-16S**  
Precision-V Flux Remover  
16 oz  
12 units/case



**1651-P**  
Precision-V Flux Remover  
1 pint  
1 units/case



**1651-G**  
Precision-V Flux Remover  
1 gal  
1 units/case



**1651-5G**  
Precision-V Flux Remover  
50 lbs  
1 units/case



**Techspray**  
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## Instructions

**Maintenance cleaning:** Disconnect equipment from power source. Make sure opening of sprayhead is pointing toward surface to be cleaned. Hold can 6-8 inches away. Direct spray to saturate soiled surface. A TechBrush® (2000 Series) may be utilized to help in the removal of heavy soils. When used as a general cleaner, start at top of area to be cleaned using a sweeping motion and spray the area, slowly working toward the bottom. To clean in hard to reach areas, insert extension tube in sprayhead to direct spray. Allow components to dry completely before applying current. **Defluxing:** Make sure opening of sprayhead is pointing toward surface to be cleaned. Hold can 15-20 cm away. Direct spray to saturate soiled surface. A TechBrush® (2000 Series) may be utilized to help in the removal of heavy soils. When used as a general cleaner, start at top of area to be cleaned using a sweeping motion, and spray the area slowly, working towards the bottom. To clean in hard to reach areas, insert extension tube in sprayhead to direct spray. Allow components to dry completely before applying current. For flat surface cleaning, saturate a lint-free TechClean® Twillwipe (2357) or Purwipe (2355) and wipe surface with cloth. Rotate the cleaning side of the wipe periodically and re-saturate.

## Technical Information

### Chemical & Physical Properties

Appearance	Clear, colorless liquid
Odor	Faint ethereal odor
Flash Point	none
Boiling Point	33°C (91.4°F)
Density	1.2815 at 25°C

### Chemical Composition

CHEMICAL NAME	CAS #
1,1,1,2,2,3,4,5,5,5-decafluoropentane (HFC-4310mee)	138495-42-8
1,2-transdichloroethylene	156-60-5
Ethanol	64-17-5
Cyclopentane	287-92-3
1,1,1,2-Tetrafluoroethane (aerosol only)	811-97-2
Carbon dioxide (aerosol only)	124-28-9



**TECHSPRAY**  
 Technical Data Sheet

**Plastics & Rubber Compatibility**

MATERIAL NAME	RATING
ABS	Not compatible
Nylon	Excellent
Lexan	Not compatible
HDPE	Excellent
LDPE	Excellent
C. E. Phenolic	Excellent
PMMA	Not compatible
POM	Excellent
PP	Excellent
PS	Not compatible
PTFE	Excellent
PVC	Not compatible

**Environmental Policy**

Techspray is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

**Resources**

Techspray products are supported by a global sales, technical and customer services resources.

For additional technical information on this product or other Techspray products in the United States, call the technical sales department at 800-858-4043, email [tsales@techspray.com](mailto:tsales@techspray.com) or visit our web site at: [www.techspray.com](http://www.techspray.com).

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**Countries Outside US**  
 Call to locate a distributor in your country.

Important Notice to Purchaser/User: The information in this publication is based on tests that we believe are reliable. The results may vary due to differences in tests type and conditions. We recommend that each user evaluate the product to determine its suitability for the intended application. Conditions of use are outside our control and vary widely. Techspray's only obligation and your only solution is replacement of product that is shown to be defective when you receive it. In no case will Techspray be liable for any special, incidental, or consequential damages based on breach of warranty, negligence or any other theory.

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