

Flux-Off® Tri-V™ Flux Remover

Product# VVV195, VVV595, VVV5595

Product Description

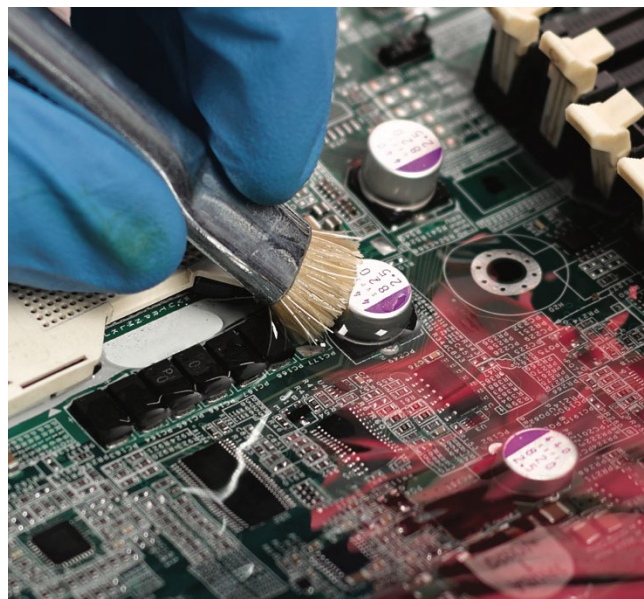
Flux-Off Tri-V Flux Remover is an extra strength nonflammable solvent that removes heavy and encrusted flux deposits. This high pressure solvent system is engineered to remove all types of flux types while evaporating quickly and leaving no residues. Tri-V replacement chemistry is a novel new chemistry that does not contain any n-propyl bromide, TCE or any ozone depleting compounds.

- Powerful cleaning agent to remove R, RA, RMA, and synthetic fluxes
- Removes encrusted fluxes and white residues
- Nonflammable, can be used on energized equipment
- Penetrates to clean hard to reach areas
- Evaporates quickly and leaves no residues, minimizes down time
- Does not contain n-propyl bromide, trichloroethylene, or perchloroethylene
- Stabilized for metals such as aluminum, magnesium, titanium, and brass
- Noncorrosive, safe for sensitive metals

Typical Applications

Flux-Off Tri-V Flux Remover effectively cleans flux from:

- Chip Carriers
- Heat Sinks
- Metal Housings and Chassis
- Printed Circuit Boards
- Plugs
- Relays and Contacts
- Sockets
- Surface Mount Device Pads
- Switches



Typical Product Data and Physical Properties

Boiling Point:	118°F / 48°C (Initial)
Solubility in Water:	Negligible
Specific Gravity:	1.27
Vapor Pressure @68°F	267 mm Hg
Appearance	Clear, colorless liquid
Odor	Mild
Flash Point (TCC):	None
Evaporation Rate: (butyl acetate =1)	>1
VOC* Content:	
CARB	100%
SCAQMD	1201g/L
Federal	95%
Kauri-Butanol (KB) Number	100
Shelflife	2 years after opening
RoHS Compliant	Yes

* Volatile Organic Compound (VOC) information is calculated on a weight basis using the VOC definition of California Air Resources Board (CARB) Consumer Product Regulations, South Coast Air Quality Management District (SCAQMD) Rule 102 and the Federal definition published in 40 CFR 51.100(s).

NOTE: As with all vapor degreaser equipment and processes, observe all safety precautions, guidelines and operating rules associated with these units. Failure to do so may put operations personnel at risk. Avoid excessive vapor losses, loss of refrigeration, excessive boil sump heat, etc. Make sure all equipment is operated in accordance with the manufacturer's guidelines and instructions. If in doubt, contact your manufacturer immediately.



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Compatibility

Flux-Off Tri-V Flux Remover is generally compatible with most materials used in printed circuit board fabrication, except acrylics, ABS resins, polycarbonates and polystyrenes. As with any cleaning agent solvent/component compatibility must be determined on a non-critical area prior to use.

Material	Compatibility
ABS	Non-Compatible
Buna-N	Fair
EPDM	Fair
Graphite	Excellent
HDPE	Excellent
LDPE	Good
Lexan	Fair
Neoprene	Fair
Noryl	Poor
Nylon 66	Excellent
Cross-Linked PE	Excellent
Polypropylene	Excellent
Polystyrene	Non-Compatible
PVC	Excellent
Silicone Rubber	Poor
Teflon	Excellent
Viton	Fair

Performance

Soil Removal – Ultrasonic Cleaning

Kester 959 Low Residue No-Clean Flux	100% Removal
W/W Gum Rosin	99.8% Removal

Soil Removal – Vapor Degreasing

Kester 959 Low Residue No-Clean Flux	100% Removal
W/W Gum Rosin	99.8% Removal

Soil Removal – Hand Wiping

Kester 959 Low Residue No-Clean Flux	100% Removal
W/W Gum Rosin	100% Removal

Usage Instructions

For industrial use only. Read SDS carefully prior to use.

For vapor degreasing or ultrasonic cleaning application, charge sump tank with solvent.

For ultrasonic or soak applications, be sure to cover tank when not in use to prevent evaporation. Allow the soiled article to soak for 5 — 10 minutes, then remove and loosen any remaining soils with a Controlwipes Wipe.

For wipe applications, wet a Controlwipes Wipe with Flux-Off Tri-V and wipe away soils.

For aerosol applications, spray 4 to 6 inches from surface to clean. Wash parts from top to bottom, allowing the liquid to flush away dirt and dissolved grease. For precise application use attached extension tube.

Availability

VVV195	1 gal. / 3.7 L Liquid
VVV595	5 gal. / 18.9 L Liquid
VVV5595	53 Gal. / 200 L Liquid

Technical and Application Assistance

Chemtronics provides a technical hotline to answer your technical and application related questions.

The toll free number is: 1-800-TECH-401.

Note:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

PHYSICAL PROPERTIES	Flux-Off® Tri-V				n-Propyl Bromide (nPB)	Trichloroethylene (TCE)	Perchloroethylene (Perc)	Methylene Chloride
	None	100	23.7	22	None	None	None	None
Flash Point	None				125	129	90	136
KB Valu					24	30	45.7	24
Dielectric Strength (kV)					24	29	32	27
Surface Tension (dynes/cm)					0.28	4.45	1.5	7
Evaporation Rate (n-butyl acetate =1)					158°F / 70°C	189°F / 87°C	250°F / 121°C	104°F / 40°C
Boiling Point					1.35	1.46	1.62	1.31
Specific Gravity @ 20°C					111	58	14	355
Vapor Pressure (mm Hg) @ 20°C					59	57.2	50.1	78.7
Heat of Vaporization (cal/g)								

ENVIRONMENTAL & HEALTH REGULATORY

Ozone Depleting Potential (ODP)	0	0.016-0.019	0	0	0	0	0	0
Global Warming Potential (GWP)	Low	0.31	140	Yes	Yes	Yes	Negligible	8.7
Volatile Organic Compounds (VOC)	Yes	Yes	Yes	Yes	Yes	Yes	Exempt	Exempt
SNAP Approved	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hazardous Air Pollutant (HAP)	No	Proposed	Yes	Yes	Yes	Yes	Yes	Yes
Prop 65 Chemical	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Carcinogen (or suspected)	No	Yes	Yes	Yes	Yes	Yes	Suspected	Suspected
Threshold Limit Value (ppm) (TLV)	200	10	25	25	25	25	25	25

MATERIAL COMPATIBILITY

	++ = Excellent	+ = Good	O = Fair	- = Poor	-- = Not Compatible
ABS	-	O	-	-	-
Buna-N	O	+	-	-	-
EPDM	O	-	-	-	-
Graphite	++	++	++	++	++
HDPE	++	++	O	O	O
LDPE	++	O	-	-	-
Lexan	-	-	-	-	-
Neoprene	O	O	-	-	-
Noryl	-	+	-	-	-
Nylon 66	+	++	O	O	O
Cross-Linked PE	+	++	++	++	++
Polypropylene	++	+	O	O	O
Polystyrene	-	--	--	--	--
PVC	+	+	-	-	-
Silicone Rubber	O	--	-	-	-
Teflon	++	++	++	++	++
Viton	+	++	++	++	++