

# CHEMTRONICS

## Technical Data Sheet

**TDS #1530**

### Flux-Off<sup>®</sup> Water Soluble Flux Remover

#### PRODUCT DESCRIPTION

The Flux-Off<sup>®</sup> Water Soluble CARB Compliant formulation is a proprietary blend of powerful cleaning solvents designed to replace TMS based solvents. This defluxing agent removes R, RMA, RA, and synthetic flux residues, as well as ionic and non-ionic soils.

- Removes R, RMA, RA, and synthetic flux residues
- Penetrates hard to reach areas
- Evaporates quickly
- Leaves no residues
- Removes light oil and grease residues
- Removes ionic and non-ionic residues
- Excellent material compatibility
- Non-corrosive formulation
- Contains no CFCs or HCFCs

#### TYPICAL APPLICATIONS

Flux-Off<sup>®</sup> Water Soluble removes flux residues and cleans:

- Chip Carriers
- Heat Sinks
- Plugs
- Printed Circuit Boards
- Relays
- Sockets
- Surface Mount Device Pads
- Switches

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

<b>Boiling Point</b>	180°F Initial	
<b>Solubility in Water</b>	Soluble	
<b>Specific Gravity</b>	Aerosol	0.79
	Liquid	0.84
<b>Evaporation Rate (butyl acetate=1)</b>	>1	
<b>Surface Tension (dynes/cm @21.6°C)</b>	21.1	
<b>Flash Point (TCC)</b>	70°F	
<b>Kauri-Butanol (KB) Number</b>	80	
<b>VOC* Content:</b>	<u>Aerosol</u>	<u>Liquid</u>
CARB	75%	75 %
SCAQMD	663 g/L	626 g/L
Federal	75%	75 %
<b>RoHS Compliant</b>		
<b>Shelflife</b>	Aerosols	5 years
	Liquids	2 years after opening

\*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).

#### COMPATIBILITY

Flux-Off<sup>®</sup> Water Soluble is generally compatible with most materials used in the electronics industry. As with any cleaning agent, solvent/component compatibility must be determined on a non-critical area prior to use.

<u>Material</u>	<u>Compatibility</u>
ABS	Excellent
Buna-N	Good
EPDM	Fair
Graphite	Excellent
HDPE	Excellent
LDPE	Excellent
Lexan™	Excellent
Neoprene	Good
Noryl®	Excellent
Nylon™ 66	Excellent
Cross-Linked PE	Excellent
Polypropylene	Excellent
Polystyrene	Excellent
PVC	Excellent
Silicone Rubber	Good
Teflon™	Excellent
Viton™	Good

<b>Performance</b>	
<b>Product Required for Rosin Removal</b>	
	(mg solvent/ 1 mg rosin flux)
Flux-Off Water Soluble	<b>71.0</b>
Conventional TF Solvent Blends	<b>277.0</b>
<b>Rosin Remval Rate (mg / in<sup>2</sup> sec.)</b>	
Flux-Off Water Soluble	<b>3.69</b>
Conventional TF Solvent Blends	<b>1.23</b>

**USAGE INSTRUCTIONS**

For industrial use only.  
 Read MSDS carefully prior to use.  
 Spray 4-6" 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. Product is Flammable - Do not use near sources of ignition and energized equipment.

**AVAILABILITY**

ES1530 14.0 oz. Aerosol  
 ES130 1 Gal. Liquid

**TECHNICAL & APPLICATION ASSISTANCE**

Chemtronics provides a technical hotline to answer your technical and application related questions. The toll free number is: **1-800-TECH-401.**

<b>ENVIRONMENTAL IMPACT DATA</b>			
HCFC-141b	None	HFC	Aerosol-Yes
HCFC-225	None	nPB	None

Hydrochlorofluorocarbons (HCFCs) are regulated under the Montreal Protocol as Class II ozone depleting substances. HCFC-141b is no longer produced in the US under this legislation. HCFC-225 is planned for production phase-out in 2015. Hydrofluorocarbons (HFCs) are not currently regulated. EPA has listed n-propyl bromide (nPB) as an acceptable alternative to ozone depleting substances in metal, precision, and electronics cleaning under Section 612 of the Clean Air Act.

**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.

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