### **TDS #1530**

# CHEMTRONICS® Technical Data Sheet

### Flux-Off® Water Soluble Flux Remover

#### PRODUCT DESCRIPTION

The Flux-Off® 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

| I II I SICAL I ROI ERTIES             |                               |  |  |  |
|---------------------------------------|-------------------------------|--|--|--|
| <b>Boiling Point</b>                  | 180°F Initial                 |  |  |  |
| Solubility in Wat                     | ter Soluble                   |  |  |  |
| <b>Specific Gravity</b>               | Aerosol 0.79                  |  |  |  |
|                                       | Liquid 0.84                   |  |  |  |
| Evaporation Rate (butyl acetate=1) >1 |                               |  |  |  |
| <b>Surface Tension</b>                | 21.1                          |  |  |  |
| (dynes/cm @21.6                       | 5°C)                          |  |  |  |
| Flash Point (TCC                      | C) 70°F                       |  |  |  |
| Kauri-Butanol (KB) Number 80          |                               |  |  |  |
| <b>VOC* Content:</b>                  | Aerosol Liquid                |  |  |  |
| CARB                                  | 75% 75 %                      |  |  |  |
| SCAQMD                                | 663 g/L 626 g/L               |  |  |  |
| Federal                               | 75% 75 %                      |  |  |  |
| RoHS Complian                         | ROHS WEEE Compliant           |  |  |  |
| Shelflife                             | 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® 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.

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

| Performance                        |       |  |  |  |  |
|------------------------------------|-------|--|--|--|--|
| Product Required for Rosin Removal |       |  |  |  |  |
| (mg solvent/ 1 mg rosin flux)      |       |  |  |  |  |
| Flux-Off Water Soluble             | 71.0  |  |  |  |  |
| Conventional TF Solvent Blends     | 277.0 |  |  |  |  |
| Rosin Remval Rate (mg / in² sec.)  |       |  |  |  |  |
| Flux-Off Water Soluble             | 3.69  |  |  |  |  |
| Conventional TF Solvent Blends     | 1.23  |  |  |  |  |

#### **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

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

| ENVIRONMENTAL IMPACT DATA |      |     |             |  |  |
|---------------------------|------|-----|-------------|--|--|
| 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. ITW 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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