

# CHEMTRONICS

## Technical Data Sheet

**TDS # 3299**

### Eco-Rite™ Stencil Cleaner

*The eco-friendly stencil cleaner*

#### PRODUCT DESCRIPTION

Eco-Rite™ Stencil Cleaner is an environmentally friendly water based product designed to effectively clean solder paste from stencils. Eco-Rite™ Stencil Cleaner is non-corrosive and biodegradable, and comes available in a convenient ready to use trigger sprayer. The water based cleaning solution cleans stencils of solder paste without the environmental impact of high VOC's, caustic compounds, and butyl-based cleaners.

- Effectively cleans wet and dry solder paste
- Removes misprinted paste
- Non-flammable
- Biodegradable
- No Phosphates, EDTA, or NTA
- Non-caustic, non-acidic, no chlorine bleach, no abrasives
- No carcinogens or ozone depleting compounds
- No petroleum distillates
- No alkylphenolethoxylates
- Butyl-Free

#### TYPICAL APPLICATIONS

Eco-Rite™ Stencil Cleaner can be used to clean stencils by:

- Underside Wiping
- Ultrasonic Stencil Cleaning
- Spray Cleaning

Eco-Rite™ Stencil Cleaner removes the following paste types:

- Rosin-based (R, RMA, RA)
- No Clean
- Lead-free
- Water soluble
- Lead free adhesives

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Boiling Point</b>                |                       |
| RTU                                 | 85°C/185°F            |
| Concentrate                         | 96°C/205°F (Initial)  |
| <b>Solubility in Water</b>          | 100%                  |
| <b>Specific Gravity</b>             |                       |
| RTU                                 | 1.00                  |
| Concentrate                         | 1.01                  |
| <b>Flash Point (TCC)</b>            | None                  |
| <b>Appearance</b>                   | Clear Liquid          |
| <b>Odor</b>                         | Moderate              |
| <b>CARB &amp; OTC VOC Content*:</b> |                       |
| RTU                                 | 5.0%                  |
| Concentrate                         | 25.0%                 |
| <b>SQAQMD VOC Content:</b>          |                       |
| RTU                                 | 83 gms/L              |
| Concentrate                         | 415 gms/L             |
| <b>Shelf life</b>                   | 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

Eco-Rite™ Stencil Cleaner is generally compatible with most materials used in printed circuit board fabrication. With any cleaning agent compatibility must be determined on a non-critical area prior to use.

| Material | Compatibility |
|----------|---------------|
| Teflon   | Excellent     |
| Graphite | Excellent     |
| LDPoly   | Excellent     |
| PVC      | Good          |
| PEHD     | Excellent     |
| Lexan    | Excellent     |
| ABS      | Good          |
| Noryl    | Good          |
| EPDM     | Excellent     |
| Butyl    | Excellent     |
| Buna N   | Excellent     |
| Acrylic  | Good          |
| Nylon 66 | Excellent     |

### USAGE INSTRUCTIONS:

For industrial use only.

Read MSDS carefully prior to use.

Eco-Rite™ Stencil Cleaner RTU can be sprayed directly from the quart bottle onto uncured solder past. Wipe away soils with a Controlwipes™ Wipe, or a clean, lint-free wipe. Eco-Rite™ Stencil Cleaner concentrate can be full strength for immersion cleaning or diluted to desired concentration. Rinse parts thoroughly in de-ionized water and dry where required.

| <u>Dilution ratios for concentrate</u> | <u>Water : Conc</u> |
|----------------------------------------|---------------------|
| Heavy flux residue                     | 2:1                 |
| Moderate flux residue / RTU            | 5:1                 |
| General cleaning                       | 10:1                |

### AVAILABILITY

ES3299 1 quart RTU

ES199 1 gallon concentrate

### ENVIRONMENTAL IMPACT DATA

|           |      |     |      |
|-----------|------|-----|------|
| HCFC-141b | None | HFC | None |
| 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.

## 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.**

### 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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