



TECHSPRAY
RENEW™

High Performance Eco-Cleaning™

Product Information

ECO-STENCIL™ SMT Stencil Cleaner

1570 (replaces 1692)

Introduction



Effectively removes all types of solder paste (e.g. water-based, RMA, no-clean, lead-free) and uncured adhesive from screens, misprinted boards and equipment. Completely safe on stencils, squeegees, and equipment surfaces. Ideal replacement for IPA cleaners, which are often prohibited because of safety and environmental restrictions on VOC's (Volatile Organic Compounds) or waste disposal.

One quart (with a trigger sprayer) and one gallon containers are ideal for surface and tool cleaning. Packaging is selected to be easily recyclable. Quart labels made of recycled paper, and cartons made of 40% recycled material.

Trigger pump on quart (1570-QT) eliminates the need for propellants, which can have a global warming impact.

Eco-Stencil™ Cleaner is fully compliant with CARB (California Air Resource Board) requirements.

Also compliant with European REACH (Registration, Evaluation, Authorization & Restriction of Chemicals) and WEEE (Waste Electrical and Electronic Equipment Directive) initiatives. It does not contain RoHS (Restriction of Hazardous Substances) restricted substances, SVHC (Substances of Very High Concern) list substances, or halides.

Features / Benefits

- Quickly Clean Paste or Uncured Adhesive
- Safe for Stencils, Tools, Misprinted Boards
- Non-Flammable
- Biodegradable
- Low VOC
- Non-Ozone Depleting
- Halide-Free – Prevents Ionic Contamination

Applications

- Manual stencil tool, work surface, and squeegee cleaning
- Automatic underside wipe stencil cleaning
- Removes unsoldered eutectic (lead) & lead-free solder pastes
- Cleans off uncured adhesives

Application

Stencil cleaning

Blade & tool cleaning

Adhesive cleaning (uncured)

Suggestions

May need to soak

About TECHSPRAY RENEW™

TECHSPRAY RENEW™ is a brand that represents **High Performance Eco-Cleaning™**. Techspray® has applied our expertise in solvent cleaning to formulate some of the most effective eco-friendly cleaners on the market. Performance is our top priority, using the best "green" solutions as they become available. We all are at the cusp of the ongoing movement toward sustainable products, packaging, and processes. It is Techspray's intention to stay at the cutting-edge while keeping our products powerful and cost effective.

Directions

Manual Stencil Cleaning

- Spray and saturate area to be cleaned.
- Wipe gently at first to allow cleaning agent to break down paste or adhesive.
- Continue to wipe in a circular motion until remaining residues are fully removed.
- Replace wipe as it becomes overly saturated with the paste/adhesive or tattered.
- Dispose of soiled wipe appropriately depending on the type of paste/adhesive removed.

Underside Stencil Cleaning

- Fill cleaner into designated reservoir of SMT printer.
- Keep adequate liquid level.

Chemical Components

| <u>Component</u> | <u>CAS#</u> |
|--------------------------------------------------|-------------|
| 2-propanol-1-butoxy | 5131-66-8 |
| Alcohols, C6-C12, ethoxylated propoxylated | 68937-66-6 |

Includes other hazardous components in non-reportable quantities.

Chemical Properties (*MSDS available on request*)

- EXPOSURE LIMIT: Limits on components not established.
Manufacturer's recommendation 1000 ppm.
- PHYSICAL STATE: Liquid
- ODOR: Faint ethereal odor
- APPEARANCE: Clear, mobile liquid
- pH: 5-6
- PERCENT VOLATILE: 97% at 104°C
- VAPOR PRESSURE: < 0.01 mmHg@20°C (VOC Composite Vapor Pressure)
- BOILING POINT : ~212°F (100°C)
- FLASHPOINT AND METHOD (TAG Closed Cup): None to boiling point
205°F (96°C)
Note: does not sustain combustion.
- SOLUBILITY IN WATER: Fully miscible
- DENSITY: 0.99 at 25°C
- VOC (by wt): 2.7%, 26.5 g/l

Performance

Tested according to modified MIL-PRF-29608 4.59 standards:

Paste dried for 5 minutes at 212°F (100°C).

Paste is applied to cleaning coupons, sprayed with cleaning fluid, allowed to sit 10-seconds, then a poly-cellulose wipe (saturated with same cleaning fluid) is dragged across one time using a dowel to maintain consistent pressure. Percentage refers to the amount of soil (by weight) removed from stainless steel test coupon.

| | Kester FL250D Lead, No-Clean | Kester HM531 Lead, Water-sol | Kester EM907 Lead-Free, No-Clean |
|-------------------------------------------------|---------------------------------|---------------------------------|-------------------------------------|
| Techspray Renew Eco-Stencil Cleaner 1570 | 53% | 89% | 34% |
| 99.8% IPA | 52% | 53% | 40% |
| Techspray Water-Based SMT Cleaner 1692 | 26% | <i>not tested</i> | <i>not tested</i> |

Compatibility

Metals

Test method: 30 day submersion in sealed container.

| Material | Compatibility |
|---------------------|---------------------|
| Brass foil | Excellent |
| Copper foil | Excellent |
| Nickel 200 | Excellent |
| Aluminum 6061 | Excellent |
| Aluminum 2024 | Excellent |
| Anodized aluminum | Good (1) |
| Stainless Steel 316 | Excellent |
| Stainless Steel 304 | Excellent |
| Mild carbon steel | Not recommended (2) |
| Galvanized Steel | Excellent |

1 = Some paint traces removed.

2 = Heavy tarnish, rust, 0.02% material gain from oxidation and mineralization

Note: Eco-Stencil™ is a water-based formula, so will encourage oxidation with prolonged exposure to iron, steel, and other susceptible metals.

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.

Packaging and Availability

Eco-Stencil™ Cleaner available in the following sizes:

| | |
|-------------|--------------------------------------------------------------|
| 1570-100DSP | 100 count pre-saturated wipes, 6" x 8" (15cm x 20cm) |
| 1570-QT | 1 quart (0.95L) w/trigger sprayer |
| 1570-G | 1 gallon (3.8L) |
| 1570-GX10 | 1 gallon (3.8L) concentrate |
| | 1 gallon (3.8L) concentrate = 10 gallon (38L) of Eco-Stencil |

Available as special order, call for pricing:

| | |
|-----------|---------------------|
| 1570-5G | 5 gallon (19L) |
| 1570-54G | 54 gallon (205L) |
| 1570-275G | 275 gallon (1,045L) |

Note: TECHSPRAY RENEW™ Eco-Stencil™ Cleaner is a direct replacement for Techspray's Water-Based SMT Stencil Cleaner:

| | |
|---------|----------------------------|
| 1570-QT | Cross from 1692-PT (pint) |
| 1570-G | Cross from 1692-G (gallon) |

Resources

Techspray® products are supported by 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 or visit our web site at: www.techspray.com.

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in your country.

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