



**TECHSPRAY**  
RENEW™

*High Performance Eco-cleaning™*

# GREEN CLEANING POWER

**NEW  
PRODUCTS  
IN 2010!**





**TECHSPRAY**  
RENEW™

High Performance Eco-Cleaning™

ECO-FRIENDLY CLEANERS THAT WORK...

## HOW TECHSPRAY DOES GREEN



**I**ntroducing TECHSPRAY RENEW™ branded cleaners, innovative solutions that combine the best of current “green” technologies to make the most powerful green cleaners on the market.

Techspray® has applied over 30 years experience in solvent cleaning to formulate products that meet regulatory standards with major ecological advantages, but no performance trade-offs.

TECHSPRAY RENEW™ products are designed through close coordination with end-users, ensuring that first and foremost, the products have superior performance. Performance is our top priority, using the best “green” solutions as they become available.

All TECHSPRAY RENEW™ products are non-ozone depleting, have very low VOCs (*Volatile Organic Compounds*), and no GWP (*Global Warming Potential*). All formulas are biodegradable with packaging that is easily recyclable and, when feasible, made from recycled materials.

### TECHSPRAY RENEW™ Ecological Advantages:

- **Low Ecological Impact**  
TECHSPRAY RENEW™ products have low VOCs, a major component of smog, and have no global warming impact. This helps your facility to comply with local, state, and federal environmental restrictions.
- **Low Toxicity & Biodegradable**  
Healthier for both personnel and environment, cleaners break down quickly, reducing long-term waste in landfills. *(Appropriate disposal depends on what is being removed.)*
- **Sustainable Materials**  
Instead of engineered solvents, we use corn-based ethanol, seed oils, soy-based oils, citrus-based oils, and other natural, sustainable ingredients.
- **Recycled/Recyclable Packaging**  
Most packaging is easily recyclable and, when feasible, made of recycled materials.
- **Regulatory Compliance**  
Compliant with CARB (*California Air Review Board*), European REACH (*Registration, Evaluation, Authorization & Restriction of Chemicals*) and WEEE (*Waste Electrical and Electronic Equipment Directive*). These products do not contain RoHS (*Restriction of Hazardous Substances*) restricted substances, SVHC (*Substances of Very High Concern*) listed substances, or halides.



**TECHSPRAY RENEW™ is the brand of choice for high performance eco-cleaning.**



## ECO-SHOWER™ Cleaner & Degreaser

**P**owerful degreaser in the tradition of Techspray's Blue Shower® cleaners. Innovative formula uses naturally-based ingredients like citrus and soy oils to soak in and quickly cut through oil, grease and adhesives.

Use full strength for thick, heavy grease and sticky adhesives or dilute with water for general cleaning. Ideal for cleaning tools, parts, shop equipment, motors, and industrial work surfaces. Leaves high-gloss finish, so ideal for stainless steel.

Convenient pre-saturated wipes available in a pop-up dispenser. Wipe material is low linting with patented dual-texture that has scrubbing surface on one side, wiping surface on the other.

- Clean heavy oil & grease, adhesives, and inks
- Concentrated and dillutable
- Non-flammable
- Non-corrosive, moderate pH
- Safe on most plastics and painted surfaces
- Biodegradable
- Low VOC, zero GWP
- Non-ozone depleting

Specifications: Mercedes Benz MSC # 3104

- 1500-N** 10 gram pen
- 1500-72DSP** 72 count pre-saturated wipes, 6" x 10.5" (15cm x 26.7cm)
- 1500-100PK** 100 count individually wrapped pre-saturated wipes, 8" x 12.25" (20.3cm x 31.1cm)
- 1500-QT** 1 quart (0.95L) w/ trigger sprayer
- 1500-G** 1 gallon (3.8L) in plastic jug
- 1500-5G** 5 gallon (19L) in plastic tub
- 1500-54G** 54 gallon (205L) in plastic drum

Call us for larger or special packaging.



1500-QT

1500-G

1500-72DSP

**NEW!**

### ECO-SHOWER™ WIPE PACKETS

Power of Eco-Shower in your tool box!

### ECO-SHOWER™ LABEL, ADHESIVE & SPOT CLEANER

Extra-strength Eco-Shower for powerful spot cleaning in your pocket!



1500-100PK

"Green" label remover in a pen!

1500-N

#### Eco-Shower Applications:

- Heavy degreasing
- Light degreasing
- Batch degreasing / ultrasonic
- Power washer
- Concrete spot cleaning
- Adhesive cleaning – wet or dry
- Stainless steel cleaning (polished)
- Carpet/upholstery spot remover
- Telecomm cable lube "ickypic"

#### Dilution Instructions:

- **100%** Caked-on grease, grills\*, oil stains, adhesives
- **10:1** Greasy tools, concrete stains\*, vents, heavily stained (food) appliances\*, scuff marks on doors, heavy grease on wheels
- **30:1** Chrome fittings, stainless steel, light general cleaning

\* If on food processing equipment or walking surfaces, must be washed/mopped thoroughly to avoid slippery surface and undesirable residues.





### PINE-SHOWER Degreaser & Surface Cleaner

Leveraging the cleaning power of pine, Pine-Shower quickly removes grease and other soils, and leaves a non-oily finish.

Does not contain butyl cellosolve, which is common in many degreasers and surface cleaners, and has potential negative health effects. Under California guidelines (CARB), Pine-Shower has zero VOC, and has a less than 3% VOC under EPA guidelines.

Pine-Shower is economical and considered ready-to-use, but can be diluted for light surface and equipment cleaning.

- Clean greasy equipment & surfaces
- Concentrated and dilutable
- Non-flammable
- pH in neutral range – non-corrosive
- Safe on most plastics and painted surfaces
- Biodegradable
- Low VOC, zero GWP
- Non-ozone depleting

<b>1502-QT</b>	1 quart (0.95L) w/ trigger sprayer
<b>1502-G</b>	1 gallon (3.8L) in plastic jug
<b>1502-5G</b>	5 gallon (19L) in plastic tub
<b>1502-54G</b>	54 gallon (205L) in plastic drum

Call us for larger or special packaging.



1502-QT

1502-G



### ECO-SHINE™ Glass & Surface Cleaner

Cleans glass, stainless steel, chrome, mirrors, tile, plastic, ceramic and enamel and leaves a streak-free finish. Effectively removes finger prints, light oils, and other soils. Made from 100% naturally-derived and sustainable ingredients.

Convenient pre-saturated wipes available in a pop-up dispenser. Wipe material is low linting and designed to polish as it cleans.

- Streak-free cleaning
- Removes fingerprints & light oils
- Non-flammable
- Non-ammoniated — safe on sensitive surfaces
- Biodegradable
- Low VOC, zero GWP
- Non-ozone depleting



<b>1505-100DSP</b>	100 count pre-saturated wipes, 6" x 8" (15cm x 20cm)
<b>1505-QT</b>	1 quart (0.95L) w/ trigger sprayer
<b>1505-G</b>	1 gallon (3.8L)

Call us for larger or special packaging.



1505-QT

1505-G

1505-100DSP





## LCD & Plasma Screen Cleaner

**D**esigned to clean sensitive surfaces including non-glare LCD and plasma screens. Best if used with 2368-2 microfiber wipe. Gel formula will not run down into sensitive equipment.



- Cleans sensitive surfaces
- Scratch-free
- Alcohol & ammonia free
- Streak-free
- Low VOC, zero GWP
- Non-ozone depleting

- 1605-6FP** 6 oz (180ml) finger-pump spray bottle  
**1605-KIT** 8 oz (240ml) finger-pump spray bottle and 1 microfiber cleaning wipe  
**2368-2** 2 16" x 16" (40.6cm x 40.6cm) dry wipes w/hemmed edges

## Cotton Cleanroom Wipers 2340

**T**his hydroentangled cotton wipe has high absorbency with extra low particulate and chemical extractables. Recommended for ISO 14644-1 Class 5 (US FED STD 209E Class 100) or higher cleanrooms. Ideal for stencil cleaning.



- Class 100 qualified
- Low chemical extractables
- Lint-free
- Biodegradable & sustainable
- High absorbency - 6 times its weight
- Made with USA grown cotton



- 2340-100** 100 count, flat 9" x 9", (23cm x 23 cm) double-bagged

## Recycled Delicate Task Wipers

**I**deal for light cleaning tasks in the laboratory, repair and maintenance facilities, and more. Quickly and easily wipes up liquid and dust. Packaged in a portable dispenser that reduces lint and cross contamination.



- Low linting
- Eco-friendly replacement for Kimwipes (KC34155, KC34256)
- 100% recycled wipe & box
- Biodegradable & sustainable

- 2342-300** 300 count, 4.4" x 8.3" (11cm x 21cm), pop-up box, 60 boxes/case  
**2343-140** 140 count, 15" x 16.6" (38cm x 42cm), pop-up box, 140 boxes/case





### ECO-STENCIL™ AQ Batch Stencil Cleaner

**D**esigned for ultrasonic and spray-in-air systems, Eco-Stencil AQ batch stencil cleaner offer great cleaning performance with much lower environmental impact. Effectively removes all types of solder paste (e.g. water-based, RMA, no-clean, lead-free) and uncured adhesives from stencils and misprinted boards.

When a water rinse is a part of the cleaning process, Eco-Stencil AQ provides an economical, yet powerful cleaning solution. This water-based cleaner uses the latest in environmentally friendly surfactants to break down pastes and adhesives. Concentrated formula saves shipping and storage cost.

Drop-in replacement for semi-aqueous and aqueous cleaners. Eco-Stencil AQ can be used in all the most popular cleaning equipment: Aqueous Technologies, Austin America Technologies, SmartSonic, EMC Global, and more. Eco-Stencil AQ work with current filtration methods, providing a long bath life and minimized disposal cost.

Eco-Stencil AQ batch stencil cleaner has been tested and proven compatible with every part of your stencil — from the frame, screen and stencil to the adhesives binding it together.

- Quickly Clean Paste or Uncured Adhesive
- Effective on all solder pastes: Lead, Lead-Free, Aqueous, RMA & No-Clean
- Safe for Stencils, Misprinted Boards & Cleaning Equipment
- Non-Flammable
- Biodegradable
- Low VOC, zero GWP
- Non-Ozone Depleting
- Halide-Free — Prevents Ionic Contamination
- pH in neutral range (6-9 pH) — Avoid Corrosion

#### ECO-STENCIL™ AQ

Concentrated - Mix 1 part Eco-Stencil AQ to 9 parts DI water

- 1572-G** 1 gallon (3.8L) in plastic jug  
Concentrated – makes 10 gal (38L)
- 1572-5G** 5 gallon (19L) in plastic tub  
Concentrated – makes 50 gal (190L)
- 1572-54G** 54 gallon (205L) in plastic drum  
Concentrated – makes 540 gal (2050L)

Call us for larger or special packaging



#### AUTOMATIC STENCIL CLEANER GUIDE

Key: ● = Best ○ = Off-line Rinse Required

Equipment Manufacturer	Equipment Type	1572 Eco-Stencil AQ
Aqueous Technologies	Ultrasonic, no rinse (e.g. StencilWasher-ECO)	●
Austin American Technologies	Spray-in-air, rinse (e.g. X30A)	●
	Spray-in-air, rinse (e.g. X30C)	●
EMC Global	Spray-in-air, no rinse (e.g. Cyber Clean 1000)	○
	Spray-in-air, rinse (e.g. CyberClean 3000)	●
Manncorp	Spray-in-air, rinse (e.g. 201SC)	●
	Ultrasonic, rinse (e.g. StencilWasher-ECO)	●
PresSure Products	Ultrasonic, no rinse (e.g. N29TP)	○
SmartSonic	Ultrasonic, rinse (e.g. Model 900)	●
	Ultrasonic, rinse (e.g. Model 2003)	●



## ECO-STENCIL™ Manual Stencil Cleaner

**E**ffectively 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 (Volatile Organic Compound) emissions or waste disposal issues.

One quart (with a trigger sprayer) and one gallon containers are ideal for surface and tool cleaning. Convenient pre-saturated wipes available in a pop-up dispenser. Wipe material is lint-free and resistant to tearing and shredding.

- Quickly clean paste or uncured adhesive
- Safe for stencils, tools, misprinted boards
- Non-flammable
- Biodegradable
- Low VOC, zero GWP
- Non-ozone depleting

### Applications:

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

Note: Not for use in automatic stencil washers.

<b>1570-100DSP</b>	100 count pre-saturated wipes, 6" x 8" (15cm x 20cm)
<b>1570-QT</b>	1 quart (0.95L) w/ trigger sprayer
<b>1570-G</b>	1 gallon (3.8L)
<b>1570-GX10</b>	1 gal (3.8L) concentrate makes 10 gallons (38L)

Call us for larger or special packaging.



## ECO-OVEN™ Cleaner

**C**leans reflow ovens, wave soldering systems, and associated heat exchanger systems by removing all types of flux residues (e.g. water-based, RMA, no-clean, lead-free). Used for periodic preventative maintenance to keep equipment performing at peak levels. It is fast acting and more effective than IPA for baked-on flux residues.

One gallon container (1573-G) recommended for wave solder finger cleaning. Just pour into the designated reservoir of your wave soldering machine. Trigger pump on quart (1573-QT) eliminates the need for aerosol propellants, which can have a global warming impact.

- Quickly clean flux residue from oven & wave fingers
- Safe on warm ovens
- Non-flammable
- Biodegradable
- Low VOC, zero GWP
- Non-ozone depleting

### Applications:

- For removal of baked-on flux residues from SMT oven and wave equipment
- Maintenance cleaning for heat exchange systems (NOTE: important to rinse thoroughly from aluminum and copper)
- Recommended for finger cleaning in all brands of wave solder equipment
- Remove accumulated flux from wave solder pallets

<b>1573-QT</b>	1 quart (0.95L) w/ trigger sprayer
<b>1573-G</b>	1 gallon (3.8L)
<b>1573-5G</b>	5 gal (19L) in plastic tub

Call us for larger or special packaging.



1573-QT

1573-G

1570-QT

1570-G

1570-100DSP

# GREEN CLEANING APPLICATION CHART

Key: ● = Best ○ = Acceptable

	1500 Eco-Shower	1502 Pine-Shower	1505 Eco-Shine	1570 Eco-Stencil	1572 Eco-Stencil AQ	1573 Eco-Oven	1605 LCD Screen Cleaner
<b>GENERAL &amp; INDUSTRIAL CLEANING</b>							
Heavy degreasing	●	●					
Light degreasing	●	●	●				
Work surface cleaning	●	●	●	●			○
Batch degreasing (e.g. ultrasonic)	●	●	○				
Enclosure cleaning	●	●	●				○
Power washer	●	●					
Concrete spot cleaning	●	●					
Label & adhesive removal	●						
Epoxy adhesive cleaning	●						
Stainless steel cleaning (polished)	●	○	●				
Stainless steel cleaning (brushed)		●	●				
Carpet/upholstery spot remover	●						
Telecomm cable lube "ickypic"	●						
Glass cleaning			●				●
LCD screen cleaning			○				●
Solar panel cleaning			●				●
<b>ELECTRONIC ASSEMBLY CLEANING</b>							
Manual stencil cleaning				●			
Batch stencil cleaning w/water rinse					●		
Blade & tool cleaning				●			
Adhesive cleaning (wet) - manual				●			
Adhesive cleaning (wet) - batch					●		
Adhesive cleaning (cured)	●						
Oven cleaning - conveyor, inner chamber						●	
Oven cleaning - heat transfer system						○	
Pallet cleaning						●	
Wave finger cleaning						●	
Misprinted board cleaning - manual				●			
Misprinted board cleaning - batch					●		
Batch defluxing (e.g. ultrasonic)					○		

**NOTE:** Test for substrate compatibility as a part of your qualification process.