



TECHSPRAY®

NEW!

PRECISION V

CLEANERS

ENGINEERED FOR PERFECTION

- Non-Ozone Depleting
- Non-Flammable
- Plastic-Safe Formula
- Low-VOC Formula



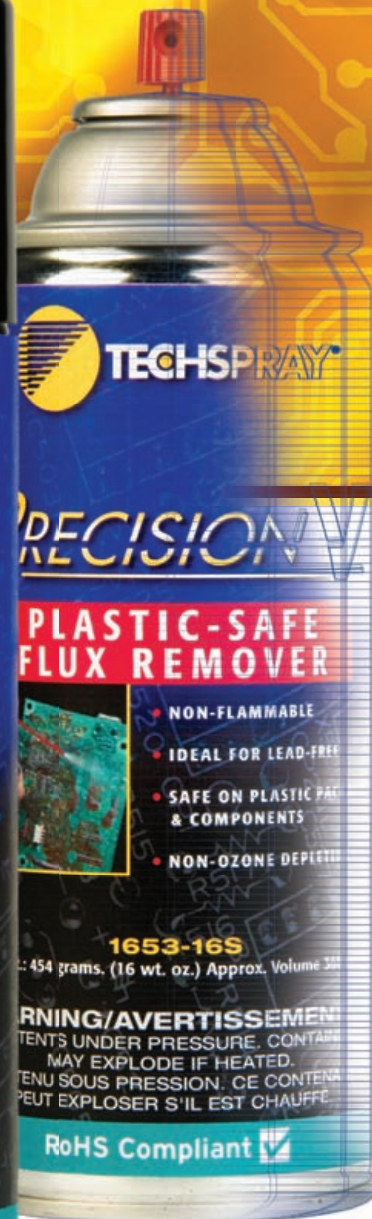
Optical Cleaning



Critical Electronics & Surfaces



Aviation/Aerospace





INTRODUCING

PRECISION V

High Performance, High Precision Cleaning Solvents

- Non-Flammable
- Low VOC
- Safe on Most Plastics
- Rapid Evaporation
- Residue-Free
- Non-Ozone Depleting



Precision-V formulas available for vapor-degreasing, cold cleaning and aerosol.

Techspray has engineered solvent cleaners that offer exciting new options for precision cleaning. Precision-V cleaners are powerful, leave no residue, and evaporate extremely fast. Electronics, optics, and metal parts are quickly and thoroughly cleaned, eliminating the need for further rinsing.

Precision-V is non-ozone depleting, so ideal replacement for cleaners containing CFC 113, HFC-141b and AK225.

Exposure to Precision-V solvents is less hazardous than many other solvents commonly used in vapor-degreasers: e.g. TCE (Trichloroethylene, CAS #79-01-6), nPB (n-Propyl Bromide, CAS #106-94-5), and Perc (Perchloroethylene, CAS #127-18-4).

Maintenance Cleaners remove oils, greases, silicones and other common industrial contaminants. Flux Removers clean R, RA, RMA and SA type flux residues after high temperature reflow, wave and hand-soldering. Ideal for lead and lead-free processes.

PRECISION V

Low VOC Formulas

Formulated to reduce VOC emissions within your facility. Ideal for aviation and other applications where strict VOC caps apply (based on EPA VOC exemptions). Bulk chemicals ideal for cold/bucket cleaning (not intended for vapor degreaser).

Precision-V Maintenance Cleaner

| | |
|-----------------|------------------------------------|
| 1650-16S | 16 oz aerosol |
| 1650-P | 1 pint (.47L) in glass bottle |
| 1650-G | 1 gal (3.8L) in glass bottle |
| 1650-5G | 50 lbs in 5 gal (18.9L) metal drum |

Precision-V Flux Remover

| | |
|-----------------|------------------------------------|
| 1651-16S | 16 oz aerosol |
| 1651-P | 1 pint (.47L) in glass bottle |
| 1651-G | 1 gal (3.8L) in glass bottle |
| 1651-5G | 50 lbs in 5 gal (18.9L) metal drum |

PRECISION V

Vapor-Degreaser Formulas

Lower boiling point than most other vapor-degreaser solvents, which reduces heat-stress on components being cleaned and reduces energy consumption from the boil sump and chiller coils.

Precision-V Vapor-Degreaser Parts Cleaner

| | |
|-----------------|-------------------------------------|
| 1654-G | 1 gal (3.8L) in glass bottle |
| 1654-5G | 50 lbs in 5 gal (18.9L) metal drum |
| 1654-54G | 600 lbs in 54 gal (204L) metal drum |

Precision-V Vapor-Degreaser Flux Remover

| | |
|-----------------|-------------------------------------|
| 1655-G | 1 gal (3.8L) in glass bottle |
| 1655-5G | 50 lbs in 5 gal (18.9L) metal drum |
| 1655-54G | 585 lbs in 54 gal (204L) metal drum |



1651-5G

1651-16S

1650-16S



1655-5G

1654-5G



Powerful and Non-Flammable

- Non-Flammable
- Patented Technology
- Safe on Most Plastics
- Rapid Evaporation
- Residue-Free
- Non-Ozone Depleting*



G3 Blue Shower Maintenance Cleaner

Designed for precision cleaning of polar and non-polar soils including hand and solder oils, greases, silicones, fluxes and other similar contaminants. Bulk chemicals ideal for cold/bucket cleaning and ultrasonics (not intended for vapor degreaser).

1630-10S 10 oz (230ml) aerosol
1630-16S 16 oz (368ml) aerosol

1635-20S 20 oz (464ml) aerosol
 G3 Industrial Maintenance Cleaner
1637-P 1 pint (.47L)

1637-G 1 gal (3.8L)
1637-5G 55 lbs in 5 gal (18.9L) metal drum
1637-54G 605 lbs in 54 gal (204L) metal drum

G3 Contact Cleaner

Removes oils, greases, silicones, dirt, and carbon build-up from contacts, pads, switches and relays. Bulk chemicals ideal for cold/bucket cleaning and ultrasonics (not intended for vapor degreaser).

1632-10S 10 oz (230ml) aerosol
1632-16S 16 oz (368ml) aerosol

1637-P 1 pint (.47L)
1637-G 1 gal (3.8L)

1637-5G 55 lbs in 5 gal (18.9L) metal drum
1637-54G 605 lbs in 54 gal (204L) metal drum

G3 Flux Remover

Removes R, RA, RMA and SA type flux residues after high temperature reflow, wave, and hand-soldering. Ideal for lead and lead-free processes. Bulk chemicals ideal for cold/bucket cleaning and ultrasonics (not intended for vapor degreaser).

1631-5S 5 oz (115ml) aerosol w/brush
1631-10S 10 oz (230ml) aerosol
1631-16S 16 oz (368ml) aerosol

1638-P 1 pint (.47L)
1638-G 1 gal (3.8L)

1638-5G 55 lbs in 5 gal (18.9L) metal drum
1638-54G 605 lbs in 54 gal (204L) metal drum

G3 No-Clean Flux Remover

Designed specifically for the removal of no-clean flux and white residues. Can also be used for removing R, RA, RMA, and SA type flux residues after high temperature reflow, wave, and hand-soldering.

1634-12S 12 oz (276ml) aerosol

* Aerosol formulas only.

ECOLINE™

Powerful and Economical

- Flammable
- Safe on Most Plastics
- Rapid Evaporation
- Residue-Free
- Non-Ozone Depleting



ECOLINE Blue Shower Maintenance Cleaner

Designed for cleaning electronic and electrical equipment, machinery and metal parts. Its rapid evaporation and compatibility with plastics make it the economical choice for great cleaning.

1620-10S 10 oz (397ml) aerosol
1620-13S 13 oz (516ml) aerosol

ECOLINE Contact Cleaner

Hexane mixture that cleans electrical contacts and connections. Ideal for switches, relays, contact pads and other electrical connections. Safe on most plastics, the solvent will not damage switch and fuse housings.

1622-10S 10 oz (397ml) aerosol
1622-13S 13 oz (516ml) aerosol
1622-54G 321 lbs in 54 gal (204L) metal drum

ECOLINE Flux Remover

Removes R, RA, RMA and SA type flux residues after high temperature reflow, wave, and hand-soldering. Ideal for lead and lead-free processes.

1621-10S 10 oz (397ml) aerosol
1621-5G 33 lbs in 5 gal (18.9L) metal drum
1621-54G 321 lbs in 54 gal (204L) metal drum

Maintenance Cleaners — Cleans oils and contaminants off of metal parts, printed circuit boards, barcode instruments, switch boxes, relays, contacts and housings.

| | Non-Flammable | Non-Ozone Depleting | VOC | Plastic-Safe | Flash Point | Toxicity | Aerosol | Cold/ Bucket Cleaning | Ultrasonic | Vapor Degreaser |
|------|---------------|---------------------|-----|--------------|-------------|----------|---------|-----------------------|------------|-----------------|
| 1620 | ○ | ● | 75% | ● | 22°F/5.6°C | 500ppm | ● | ○ | ○ | ○ |
| 1622 | ○ | ● | 75% | ● | 22°F/5.6°C | 500ppm | ● | ● | ○ | ○ |
| 1630 | ● | ● | 61% | ○ | none | 448ppm | ● | ○ | ○ | ○ |
| 1632 | ● | ● | 60% | ○ | none | 395ppm | ● | ○ | ○ | ○ |
| 1637 | ● | ○ | 61% | ○ | none | 169ppm | ○ | ● | ● | ○ |
| 1650 | ● | ● | 37% | ○ | none | 420ppm | ● | ● | ● | ○ |
| 1654 | ● | ● | 41% | ○ | none | 259ppm | ○ | ● | ○ | ● |
| 1658 | ● | ○ | 59% | ○ | none | 243ppm | ○ | ● | ● | ● |
| 1663 | ● | ○ | 0% | ● | none | 270ppm | ● | ● | ● | ● |
| 1664 | ● | ○ | 35% | ○ | none | 323ppm | ● | ● | ● | ● |
| 1667 | ● | ○ | 9% | ○ | none | 350ppm | ● | ● | ● | ○ |
| 1668 | ● | ○ | <1% | ○ | none | 278ppm | ● | ● | ● | ○ |

Flux Removers — Removes no-clean and rosin based residues off of printed circuit boards in production, rework and repair.

| | Non-Flammable | Non-Ozone Depleting | VOC | Plastic-Safe | Flash Point | Toxicity | Aerosol | Cold/ Bucket Cleaning | Ultrasonic | Vapor Degreaser |
|------|---------------|---------------------|-----|--------------|-------------|----------|---------|-----------------------|------------|-----------------|
| 1621 | ○ | ● | 75% | ● | 22°F/5.6°C | 500ppm | ● | ● | ○ | ○ |
| 1631 | ● | ● | 61% | ○ | none | 395ppm | ● | ○ | ○ | ○ |
| 1634 | ● | ● | 61% | ○ | none | 395ppm | ● | ○ | ○ | ○ |
| 1638 | ● | ○ | 70% | ○ | none | 155ppm | ○ | ● | ● | ○ |
| 1651 | ● | ● | 37% | ○ | none | 420ppm | ● | ● | ● | ○ |
| 1655 | ● | ● | 43% | ○ | none | 278ppm | ○ | ● | ○ | ● |
| 1660 | ● | ○ | 35% | ● | none | 323ppm | ● | ○ | ○ | ○ |
| 1665 | ● | ○ | 5% | ● | none | 277ppm | ● | ● | ● | ● |
| 1666 | ● | ○ | 5% | ○ | none | 276ppm | ○ | ● | ● | ● |
| 1669 | ● | ○ | 15% | ● | none | 281ppm | ○ | ● | ● | ● |

● IDEAL ○ ACCEPTABLE ○ NOT SUITABLE or NOT APPLICABLE

VOC calculated percentage by weight following EPA exemptions of aerosol formulas (where applicable). Toxicity calculated weighted average of ACGIH or supplier rating of aerosol formulas (where applicable).