



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



TECHSPRAY
PRECISION V
PLASTIC-SAFE UNIVERSAL CLEANER

- Non-Flammable
- Non-Ozone Depleting
- Rapid Evaporation
- Zero Residue

1652-P

BATCH NUMBER: D8154
Net Weight: 72 lbs (4.1 kg)

READ CAUTIONS ON SIDE PANEL

RoHS Compliant



TECHSPRAY
PRECISION V
MAINTENANCE CLEANER

- NON-FLAMMABLE
- IDEAL FOR ELECTRONIC & CONTACT CLEANING
- LOW VOC
- NON-OZONE DEPLETING

1650-16S

Net Wt: 454 grams (16 wt. oz.) Approx. Volume 368 ml

WARNING/AVERTISSEMENT:
CONTENTS UNDER PRESSURE. CONTAINER
MAY EXPLODE IF HEATED.
CONTENU SOUS PRESSION. CE CONTENANT
PEUT EXPLOSER S'IL EST CHAUFFE.

RoHS Compliant



TECHSPRAY
PRECISION V
PLASTIC-SAFE UNIVERSAL CLEANER

- NON-FLAMMABLE
- IDEAL FOR LEAD-FREE
- SAFE ON PLASTIC PACKAGING & COMPONENTS
- NON-OZONE DEPLETING

1652-10S

10 wt. oz. (284 grams) Approx. Volume 368 ml

WARNING/AVERTISSEMENT:
CONTENTS UNDER PRESSURE. CONTAINER
MAY EXPLODE IF HEATED.
CONTENU SOUS PRESSION. CE CONTENANT
PEUT EXPLOSER S'IL EST CHAUFFE.

RoHS Compliant

NOW AVAILABLE!

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 replacements for cleaners containing Freon, 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 VOCs 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 and ultrasonics (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

NOW AVAILABLE!

Plastic Safe Formula

Plastic-Safe formula is engineered for use on sensitive plastic components, packaging and casements. Ideal for optics cleaning, critical electronics and other sensitive surfaces. Qualifies under the aerospace NESAP VOC guidelines.

Precision-V Plastic-Safe Universal Cleaner

| | |
|-----------------|------------------------------------|
| 1652-10S | 10 oz aerosol |
| 1652-P | 1 pint (.47L) in glass bottle |
| 1652-G | 1 gal (3.8L) in glass bottle |
| 1652-5G | 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

1651-G



1652-5G

1652-10S

1652-P



1655-5G

1654-5G



Powerful and Non-Flammable

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

**New Improved Bulk Formula!
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 | 1638-G | 1 gal (3.8L) in glass bottle | NEW IMPROVED! |
| 1630-16S | 16 oz (368ml) aerosol | 1638-5G | 55 lbs in 5 gal (18.9L) metal drum | NEW IMPROVED! |
| 1637-P | 1 pint (.47L) in glass bottle | 1638-54G | 605 lbs in 54 gal (204L) metal drum | NEW IMPROVED! |

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 | 1638-G | 1 gal (3.8L) in glass bottle | NEW IMPROVED! |
| 1632-16S | 16 oz (368ml) aerosol | 1638-5G | 55 lbs in 5 gal (18.9L) metal drum | NEW IMPROVED! |
| 1637-P | 1 pint (.47L) in glass bottle | 1638-54G | 605 lbs in 54 gal (204L) metal drum | NEW IMPROVED! |

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.

| | | | | |
|-----------------|-------------------------------|-----------------|-------------------------------------|----------------------|
| 1631-10S | 10 oz (230ml) aerosol | 1638-G | 1 gal (3.8L) in glass bottle | NEW IMPROVED! |
| 1631-16S | 16 oz (368ml) aerosol | 1638-5G | 55 lbs in 5 gal (18.9L) metal drum | NEW IMPROVED! |
| 1638-P | 1 pint (.47L) in glass bottle | 1638-54G | 605 lbs in 54 gal (204L) metal drum | NEW IMPROVED! |

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 |
|-----------------|-----------------------|

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 perfect choice for economic 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 | ● | ○ | ○ | ○ |
| 1638 | ● | ● | 61% | ○ | none | 169ppm | ○ | ● | ● | ○ |
| 1650 | ● | ● | 37% | ○ | none | 420ppm | ● | ● | ● | ○ |
| 1652 | ● | ● | 41% | ● | none | 259ppm | ● | ● | ● | ○ |
| 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 | ● | ● | ● | ○ |
| 1652 | ● | ● | 41% | ● | none | 259ppm | ● | ● | ● | ○ |
| 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).