Product Information





FLUX REMOVER

3401

Introduction

PWR-4™ Flux Remover is ideal where a safer, non-flammable, and cost effective cleaner is required. This innovative solvent is much safer than the four most common industrial solvents: TCE, nPB, Perc and Methylene Chloride and quickly cleans the most difficult baked-on R, RMA & no-clean fluxes from electronic assemblies. It is engineered to remain stable and effective over thousands of cycles in vapor degreasing equipment.

Features / Benefits

- Non-flammable
- Much safer than most common industrial solvents —TCE, nPB, Perc & Methylene Chloride
- Powerful cleaner Effective on R, RMA & no-clean fluxes
- · Available in aerosol or bulk for vapor-degreasing, ultra-sonic and immersion cleaning
- Rapid evaporation

Chemical Properties (SDS available on request)

| • | PHYSICAL STATE: | . Liquia |
|---|-----------------------|-----------------------|
| • | ODOR: | . Faint ethereal odor |
| • | COLOR: | . Clear |
| • | PERCENT VOLATILE: | . 100 |
| • | FLASHPOINT (METHOD): | . none (TAG CC) |
| • | KB VALUE: | . 100 |
| • | Specific gravity | . 1.27 |
| • | Vapor pressure (mmHg) | . 267 |
| • | VOC – CARB: | . 100% |
| • | VOC - SCAQMD | . 1201 g/l |
| • | VOC – EPA | . 95% |
| | | |

Per MIL-PRF-29608 4.5.9, % Efficiency / soil removal

Plastics Compatibility

| Material | Compatibility |
|----------|----------------|
| ABS | Not Compatible |
| Buna-N | Fair |
| EPDM | Fair |
| Graphite | Excellent |
| HDPE | Excellent |
| LDPE | Good |
| Lexan | Fair |
| Neoprene | Fair |
| Noryl | Not Compatible |

| Material | Compatibility |
|-----------------|----------------|
| Nylon 66 | Excellent |
| Cross-Linked PE | Excellent |
| Polypropylene | Excellent |
| Polystyrene | Not Compatible |
| PVC | Excellent |
| Silicone Rubber | Poor |
| Teflon | Excellent |
| Viton | Fair |

| PHYSICAL PROPERTIES | 3400 PWR-4 Maint Clnr | n-Propyl Bromide (nPB) | Trichloroethylene (TCE) | Perchloroethylene (Perc) | Methylene Chloride |
|---------------------------------------|-----------------------|------------------------|----------------------------|--------------------------|--------------------|
| Flash Point | None | None | None | None | None |
| KB Value | 100 | 125 | 129 | 90 | 136 |
| Dielectric Strength (kV) | 23 | 24 | 30 | 45.7 | 24 |
| Surface Tension (dynes/cm) | 22 | 24 | 29 | 32 | 27 |
| Evaporation Rate (n-butyl acetate =1) | 0.3 | 0.28 | 4.45 | 1.5 | 7 |
| Boiling Point | 118°F (48°C) | 158°F (70°C) | 189°F (87°C) | 250°F (121°C) | 104°F (40°C) |
| Specific Gravity | 1.26 @ 20°C | 1.35 @ 25°C | 1.46 @ 20C | 1.62 @ 20C | 1.31 @ 25C |
| Vapor Pressure (mm Hg) @ 20C | 268 | 111 | 58 | 14 | 355 |
| Heat of Vaporization (cal/g) | 68 | 59 | 57.2 | 50.1 | 78.7 |
| ENVIR. & HEALTH REGULATORY | | | | | |
| Ozone Depleting Potential (ODP) | 0 | 0.016-0.019 | 0 | 0 | 0 |
| Global Warming Potential (GWP) | Low | 0.31 | 140 | Negligible | 8.7 |
| Volatile Organic Compounds (VOC) | Yes | Yes | Yes | Exempt | Exempt |
| SNAP Approved | Yes | Yes | Yes | Yes | Yes |
| Hazardous Air Pollutant (HAP) | No | Proposed | Yes | Yes | Yes |
| Prop 65 Chemical | No | Yes | Yes | Yes | Yes |
| Carcinogen (or suspected) | No | Yes | Yes | Suspected | Suspected |
| Threshold Limit Value (ppm) (TLV) | 200 | 10 | 25 | 25 | 25 |
| MATERIAL COMPATIBILITY | | | | | |
| ABS | × | 0 | × | | |
| Buna-N | 0 | • | × | | |
| EPDM | 0 | × | × | | |
| Graphite | • | • | • | | |
| HDPE | • | • | 0 | | |
| LDPE | • | 0 | × | | |
| Lexan | × | × | × | | |
| Neoprene | 0 | 0 | × | | |
| Noryl | × | • | × | | |
| Nylon 66 | 0 | • | 0 | | |
| Cross-Linked PE | 0 | • | | | |
| Polypropylene | • | 0 | 0 | | |
| Polystyrene | × | × | × | | |
| PVC | 0 | • | × | | |
| Silicone Rubber | 0 | × | × | | |
| Teflon | • | • | • | | |
| Viton | 0 | • | • | | |

CLEANING EFFICIENCY

| CLEANING EFFICIENCY | | | |
|---------------------|--------------------------|--|--|
| Grease type | 3400 PWR-4 Maint Clnr | | |
| Corrosion Inhibitor | • | | |
| All Purpose Grease | • | | |
| Motor Oil | • | | |
| Hydraulic Fluid | • | | |
| Silicone Fluid | • | | |
| Chain Lube | • | | |
| No Clean Flux | • | | |
| Rosin Flux | • | | |

KEY:

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

PWR-4 Flux Remover available in the following sizes:

3401-G 1 gallon / 3.8L 3401-5G 5 gallons / 19L 3401-54G 54 gallons / 205L

Resources

Techspray® products are supported by a 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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Countries Outside US Call to locate a distributor in your country.

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