



# Sur-Prep®

## SURFACE PREPARATION & AVIONICS CLEANERS

### SUR-PREP® 123



*Product description:*  
**PRECISION CONTACT AND OXYGEN  
SYSTEMS CLEANER**

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#### FEATURES:

- ▶ An environmentally sensible solvent
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#### KEY BENEFITS:

- ▶ Non Ozone Depleting
- ▶ Contains a low toxicity level and does not leave a residue
- ▶ Safe on Polycarbonates, PVC, PET, HDPE, ABS, Viton, Neoprene, and Butyl-rubber
- ▶ Not flammable and not explosive
- ▶ Does not harm metal, paint, varnished surfaces, and most plastics and elastomers
- ▶ Excellent solvent replacement for a variety of cleaning processes, such as instruments, APU kits, bearings, and oxygen system equipment (non-aerosol applications)
- ▶ Evaporates quickly and has a wide solvency range
- ▶ Solvency and physical properties make **Sur-Prep® 123** ideal for precision cleaning, the drying of high sensitivity parts, and for the cleaning of oxygen systems (Non-aerosol applications)
- ▶ Dissolves many soils found in military and aerospace cleaning



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 For more information contact us :  
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## PRECISION CONTACT AND OXYGEN SYSTEMS CLEANER

### SPECS:

- NASA/TP-2015-218207 (Preferred solvent for cleaning LOX systems)
- NSN: 6830-01-678-3176 (10 lb (4536 gram) Bulk Cylinder)
- NSN: 6850-01-671-8497 (Aerosol)
- T.O. 15X-1-1
- Boeing BAC 5402

### APPLICATIONS:

- ✓ Pretest **Sur-Prep® 123** on sensitive plastics as **Sur-Prep® 123** will craze acrylics
- ✓ With regards to elastomers, **Sur-Prep® 123** will affect EPDM, NBR, and Buna, but is safe on Viton, Neoprene, Butyl-rubber, and others
- ✓ Bulk containers come with a CGA 165 valve that can be adapted down to whatever size will interface with the oxygen line being serviced, including flare and Swagelok fittings
- ✓ Aerosols can be used for cleaning the oxygen system fittings.
- ✓ Use the bulk form of **Sur-Prep® 123** to clean LOX lines
- ✓ Use the aerosol of **Sur-Prep® 123** to clean fittings

### PHYSICAL PROPERTIES:

- ▶ **AITO<sub>2</sub> Enriched ASTM G72 @ 1500 psig:** 210°C (410°F)
- ▶ **Boiling Point (F°) (C°):** 19°C (66°F)
- ▶ **Density (grams / cm, 25°C (77°F)):** 1.26
- ▶ **Flash Point:** None
- ▶ **Freezing Point:** -161°F(-107°C)
- ▶ **Global Warming Potential (100 Year):** <5 (CO<sub>2</sub> =1.0)

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### PHYSICAL PROPERTIES:

- ▶ **KB Value:** 25
- ▶ **Latent Heat of Vaporization at Boiling Point:** 83.4 BTU/lb (194 kJ/kg)
- ▶ **Liquid Density at 77°F (25°C):** 10.5 lb/gal (1.26 gm/mL)
- ▶ **Liquid Viscosity at 77°F (25°C):** 0.446 cP
- ▶ **Lower Flame Limit, Vol %:** None
- ▶ **NVR (non-volatile residue) Content:** <2 ppm
- ▶ **OEL (PPM):** 800
- ▶ **Solubility of Water in Solvent at 25°C (77°F):** 460 ppm
- ▶ **Surface Tension (dyne/cm, 25°C (77°F)):** 12.7
- ▶ **Vapor Pressure at 77°F (25°C):** 18.6 psia (126 kPa)
- ▶ **VOC (U.S.):** 0 grams / Liter (VOC less water and exempt solvents)

### AVAILABLE PACK SIZES:

- ▶ Case of 12 Aerosols-102815
- ▶ 10 Pound (4536 gram) Cylinder-102933
- ▶ 50 Pound (22680 gram) Cylinder-102934
- ▶ Special Packaging Upon Request

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