

SUR-PREP® 123



Page 1 of 4

Product description:

PRECISION CONTACT AND OXYGEN SYSTEMS CLEANER

FEATURES:

- ▶ An environmentally sensible solvent

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



Rev: 29079N
09-16-2026

SUR-PREP® 123



Page 2 of 4

Product description:

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
- ✓ The **Sur-Prep® 123** aerosol can be used with the **Zip-Chem® Aerosol Trigger Sprayer** that is designed for use with any **Zip-Chem®** aerosol can
- ✓ Refer to the **Sur-Prep® 123** application manual for detailed application instructions. This manual can be obtained by reaching out to your **Zip-Chem®** rep for a copy of this document.
- ✓ Store **Sur-Prep® 123** at 40°F - 100°F (4.4°C - 37.8°C) in the original unopened containers. Keep containers closed when not in use and protect **Sur-Prep® 123** from sunlight.

SUR-PREP® 123



Page 3 of 4

Product description:

PRECISION CONTACT AND OXYGEN SYSTEMS CLEANER

PHYSICAL PROPERTIES:

- ▶ **AITO₂ 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 (CO₂ =1.0)
- ▶ **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



For more information contact us :
zipchem@addevmaterials.com



Part of



ADDEV
MATERIALS

SUR-PREP® 123



Page 4 of 4

Product description:

PRECISION CONTACT AND OXYGEN SYSTEMS CLEANER

PHYSICAL PROPERTIES (CONTINUED FROM PAGE 3):

- ▶ **Shelf Life:** 3 Years From Date Of Shipment If Properly Stored
- ▶ **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:

Sur-Prep® 123

- ▶ Case of 12 of 16 fl oz (473 mL) Aerosols-102815
- ▶ 10 Pound (4536 gram) Cylinder-102933
- ▶ 50 Pound (22680 gram) Cylinder-102934
- ▶ Special Packaging Upon Request

Zip-Chem® Aerosol Trigger Sprayer

- ▶ 010040



For more information contact us :
zipchem@addevmaterials.com



Part of



ADDEV
MATERIALS