



AquaVantage®

1696 GD



Space & Aerospace



Neutral pH, Non-Silicated Spray Wash Detergent

A neutral pH, non-silicated, non-phosphated, APE/NPE-free non-foaming aqueous degreasing chemistry. Ideal for cleaning sensitive metals like cadmium and copper/alloys, plastics and elastomers. Can be used in immersion, in-line or cabinet spray wash and highly turbulated immersion cleaning systems. Safe on virtually all metals.

Benefits

- Independent Performance Documentation – Proven Cleaning Results
- Water-Based, Dilutable Formulation – Dilutes specific to your application
- Extends Bath Life – Creates Labor Savings & Reduces Costs
- Low Foaming at Temperatures Greater than 120°F (49°C)
- Very Free Rinsing – Cleaner Parts & Simplified Cleaning
- Reduced Cleaning Rework & Rejects
- SCAQMD: Certified as a Clean Air Solvent
- Separates oil effectively for easy skimming
- RoHS Compliant
- APE/NPE/Silicate/Phosphate-Free

Industry Approvals & Conformance

- Boeing: BAC 5763; Emulsion Cleaning
- South Coast AQMD: Certified as a Clean Air Solvent

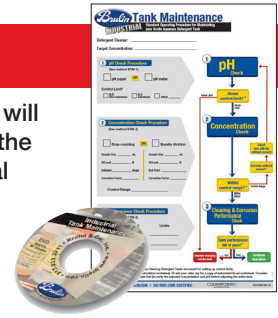
Test Compliance

- ASTM F-945: Titanium Stress Corrosion (AMS 4916 & 4911 Alloys)
- ASTM F-483
- ASTM F-485 Unpainted Surfaces
- ASTM F-1110
- ASTM F-2111

TANK MAINTENANCE

Proper maintenance of your spray wash system will ensure the longest possible detergent bath life, the best parts cleaning performance and the optimal assurance against part corrosion.

BHC has developed Maintenance Guidelines for Aqueous Detergent Tanks, a comprehensive flow chart to illustrate the process and a step-by-step video to guide you through.



Concentration Verification for AquaVantage 1696 GD

Brulin Titration Kit (Prod. No. XTRKIT)	
Sample Size:	20 mL
Titrant:	1.0 N HCl Solution
Indicator:	Bromophenol Blue (4 Drops)
Concentration %:	Drops Titrant x 0.4

Burette Test Method	
Sample Size:	100 mL
Titrant:	0.5 N HCl Solution
pH Endpoint:	3.8
Concentration %:	mL Titrant x 1.23



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Performance Properties

Substrates

AquaVantage 1696 GD is non-corrosive and non-staining to a wide variety of alloys. Some selected categories of materials compatible with AquaVantage 1696 GD include*:

Ferrous Metals: Carbon Steel • Stainless Steel

Non-Ferrous Metals & Alloys: Aluminum • Cadmium Plating • Chrome Plating • Copper (Alloys & Plating) • Titanium & Titanium Alloys

Plastic & Composites: High Density Polyethylene/HDPE • Nitrile Butadiene Rubber • Polyvinyl Chloride/PVC

Other: Glass

Soils

AquaVantage 1696 GD removes a wide range of organic and inorganic soils. Some categories of soils that can be removed with AquaVantage 1696 GD include*:

Coolants • Dirt (Particulate) • Grease • Inks • Oil (General, Cutting, Drawing Compounds, Fingerprints, Forming, Hydrocarbon, Lubricants, Self Emulsifying, Silicone/Greases, Water Soluble)

**Material compatibility should always be confirmed via testing with specific contaminants under specific cleaning conditions.*

Use Recommendations

System	Spray Wash Systems (Batch or Continuous) • Circulating Parts Washer • Immersion with Significant Agitation
Dilution	3-15%, typically used at 5%
Cleaning Temperature Range	120-180°F (49-82°C) , typically used at 120-150°F (49-66°C)
Cleaning Duration	1-30 minutes; typically parts are clean in 1-5 minutes
Rinse Temperature	A heated rinse may improve overall performance. Some OEM process specifications may require a heated rinse.
Rinse Water Quality	Recommended conductivity of final rinse water: • Ultra-Clean Applications: ≤ 50 microsiemens • Precision Cleaning: ≤ 500 microsiemens • Gross Cleaning: > 500 microsiemens
To avoid spotting, it is best if the parts remain wet between processing stages.	

Authorized Representative:

Typical Chemical Characteristics

Physical Form	Liquid
Color	Light Yellow
Fragrance	Mild
Viscosity	Water-thin
Weight	8.60 lbs/gal (1.03 g/ml)
pH of Concentrate	8.0
pH of Working Solution:	7.7
Flash Point (PMCC)	>212°F (100°C)
Foaming Tendency	Low
Calculated V.O.C	3% (32 g/l)
Freeze/Thaw	Reusable after thawing & remixing

Shipping: Non-hazardous for shipping by ground, sea, or air in all package sizes.

Storage: Store in well-ventilated areas at temperatures between 40-110°F (4-43°C). The recommended shelf life of this product is 24 months.

Disposal: Dispose of waste and residues in accordance with local authority requirements. Please recycle container.

Prevention: Wash hands thoroughly after handling. Wear safety glasses with side shields (or goggles). Wear protective gloves.

Product Number: 431039
(Formerly Burlin 1696 B)

Availability:

- 5 Gal (19L)
- 55 Gal (208L)
- 275 Gal Tote (1,041L)
- Bulk - up to 5,000 Gal (~19,000L)

BHC offers a full line of Burlin-branded industrial chemicals for industries such as Space & Aerospace, Automotive, Precision Metal, Medical and Optics.



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