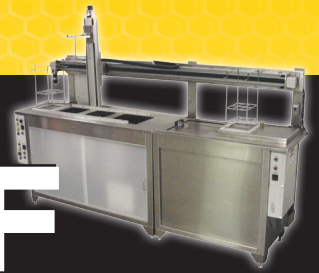


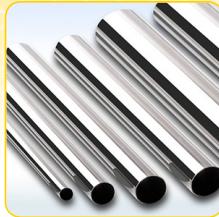


AquaVantage® 815 QR-NF



Heavy-Duty, APE/NPE-Free Immersion & Ultrasonic Detergent

Precision
Metal



Heavy-duty detergent provides aggressive cleaning for the most tenacious soils, and broad compatibility with steel, aluminum and most substrates. AquaVantage 815 QR-NF is the ideal APE/NPE-free detergent for heavy-duty immersion cleaning processes. Cleans stubborn greases, carbon and other difficult soils on steel, aluminum and most common substrates.

Benefits

- Water-Based, Dilutable Formulation – Dilutes Specific to Your Application
- Extends Bath Life – Creates Labor Savings & Reduces Costs
- In-Process Corrosion Control
- Transmits Ultrasonic Cavitation at All Temperatures
- Free Rinsing – Cleaner Parts & Simplified Cleaning
- Reduced Cleaning Rework & Rejects
- Separates Oil Effectively for Easy Skimming
- RoHS Compliant
- APE/NPE-Free

Industry Approvals & Conformance

- USDA C1

TANK MAINTENANCE

Proper maintenance of your immersion/ultrasonic tank or spray wash system will ensure the longest possible detergent bath life, the best part 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 815 QR-NF

Burlin Titration Kit (Prod. No. XTRKIT)	
Sample Size:	5 mL
Titrant:	1.0 N HCl Solution
Indicator:	Bromophenol Blue (2 Drops)
Concentration %:	Drops Titrant x 0.46

Burette Test Method	
Sample Size:	50 mL
Titrant:	0.5 N Acid Solution
Indicator:	4.50
Concentration %:	mL Titrant x 0.56
or	
Sample Size:	50 mL
Titrant:	0.5 N Acid Solution
pH Endpoint:	3.80
Concentration %:	mL Titrant x 0.55



AquaVantage® 815 QR-NF

Performance Properties

Substrates

AquaVantage 815 QR-NF is non-corrosive and non-staining to a wide variety of alloys. Some selected categories of materials compatible with AquaVantage 815 QR-NF include*:

Ferrous Metals: Carbon Steel • Stainless Steel

Non-Ferrous Metals & Alloys: Aluminum • Chrome Plating • Magnesium & Magnesium Alloys • Titanium & Titanium Alloys

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

Soils

AquaVantage 815 QR-NF removes a wide range of organic and inorganic soils. Some categories of soils that can be removed with AquaVantage 815 QR-NF include*:

Buffing Compounds • Carbon • Coolants • Dirt (Particulate) • Fat • Flux • Grease • Inks • Oils (General, Cutting, Drawing Compounds, Fingerprints, Forming, Honey, Hydrocarbon, Lubricants, Self Emulsifying, Silicone/Grease, Sulfur/Chlorinated, Water Soluble) • Tar & Pitch • Waxes

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

Use Recommendations

System	Immersion & Ultrasonic Tanks
Dilution	1-15%, typically used at 10%
Cleaning Temperature Range	130-170°F (54-77°C), typically used at 140-150°F (60-66°C)
Cleaning Duration	1-30 minutes: typical parts are cleaned in 3-10 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: <ul style="list-style-type: none"> • 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.	
AquaVantage 815 QR-NF contains a short-term flash rust inhibitor. If longer protection is desired, consult your representative for product recommendation.	

Authorized Representative:

Typical Chemical Characteristics

Physical Form	Liquid
Color	Blue
Odor/Fragrance	Citrus
Viscosity	Water-thin
Weight	8.87 lb/gal (1.063 g/ml)
pH of Concentrate	12.5
pH of Working Solution	11.6
Flash Point (PMCC)	None to boiling
Foaming Tendency	Moderate to high
Calculated V.O.C	7.49% (79.6 g/L)
Freeze/Thaw	Reusable after thawing & remixing

Shipping: Packing Group II.

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: Do not breathe mist or vapor. Use only in well-ventilated areas. Wash hands thoroughly after handling. Wear protective gloves. Wear safety glasses with side shields (or goggles).

Product Number: 301014
(Formerly 815 QR-NF)

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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