



World Class Cleaning Solutions for

Transportation

OEM AND MRO



BHC's high performance degreasers provide safer, advanced solutions for OEM parts manufacturers and overhaul operations.

Solutions That Deliver

- Critical Cleaning for Delicate and High-Value Parts • Degreasing of New Parts
• Cleaning & Carbon Removal for Heavy-Duty Rebuild

AquaVantage® PRECISION CLEANERS

AquaVantage aqueous detergents deliver better parts cleaning/degreasing, broad material compatibility and reduced costs. Proven solvent replacement technology for Manufacture (OEM) & Rebuild (MRO) critical parts cleaning.

AquaVantage HTD*

pH neutral Immersion Ultrasonic Detergent with no silicates, phosphates or APE

- Neutral pH formulation provides effective cleaning for a wide range industries, OEM machining/cutting oils.
- A Safer cleaner for applications where APE's, Phosphates, and Silicates are not tolerated.

AquaVantage 815 QR-NF*

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

- Provides aggressive cleaning for the heaviest soils, grease, carbon and diesel.
- Ideal APE/NPE-free detergent for heavy-duty immersion cleaning processes.

Alkaline Deruster HD*

Heavy Duty Alkaline Degreaser

- A concentrated APE/NPE-free liquid cleaner, deruster, descaler, and decarbonizer. Strips away old paint.
- Can be used in spray, ultrasonics, or immersion
- Ferrous metals safe.

AquaVantage 1696 GD

Energy Efficient Spray Wash Detergent

- Low-temperature foam control cleanability and broad material compatibility testing. APE/NPE-free.
- Proven effective for degreasing stamped steel parts. Aluminum safe.

AquaVantage 3800 GD

Brulin's Highest Technology Spray Wash Detergent

- Provides unprecedented performance and scope of application. Delivers exceptional OEM parts degreasing and soil removal. APE/NPE-free and Phosphate-free.
- Effective in spray, turbulation, immersion or ultrasonic cleaning systems.
- Safe on most common metals.

AquaVantage 515 NF*

Medium Duty Spray Wash Detergent

- Low foaming degreaser and detergent that is effective on a wide-range of soils and substrates.
- Use in spray wash cleaning processes for heavy oil, grease, and carbon removal. Aluminum safe.

**Version fulfills requirements for EU/REACH, Canada and other jurisdictions where NPE is restricted.*



Transportation

● = Conformance/
Effectiveness

●+ = Conformance/
Effectiveness Plus

Immersion & Ultrasonic

AquaVantage HTD

AquaVantage 815 QR-NF

Alkaline Deruster HD

SOILS*

Buffing Compounds (Melt range up to 160°F/71°C)	●	●+	●
Carbon		●+	●+
Coolants	●+	●+	●+
Dirt (Particulate)	●+	●+	●
Fat		●+	●+
Grease	●	●+	●+
Inks	●	●	●
Oil (General)	●	●+	●+
- Cutting	●+	●+	●+
- Drawing Compounds	●+	●+	●+
- Fingerprints	●	●	●
- Forming	●+	●+	●
- Honey		●	●
- Hydrocarbon	●+	●	●+
- Lubricants	●+	●+	●+
- Self Emulsifying	●	●	●+
- Silicone/Greases		●	●
- Sulfur/Chlorinated		●	●+
- Water Soluble	●+	●+	●+
Tar & Pitch		●	●+
Waxes (Melt range up to 160°F/71°C)		●	●

SUBSTRATES*

Steel	●+	●+	●+
Non-Ferrous Metals	Aluminum	●+	
	Cadmium Plating	●	
	Chrome Plating	●	
	Copper (Alloys & Plating)	●+	
	Magnesium & Magnesium Alloys	●	●+
	Titanium & Titanium Plating	●	●+
	Zinc & Galvanized	●	
Plastics & Composites*	●	●	●
Glass	●+	●	

SYSTEM

Immersion Tanks	●+	●+	●+
Ultrasonic Tanks	●+	●+	●+
Turbulation			●+
Cabinet/Inline Spray			●+

TYPICAL CHEMICAL CHARACTERISTICS

Long Solution Life	●	●+	●+
pH of Concentrate	8.3	12.4	14
pH of Working Solution	8.1	11.6	14
Flash Point	None to boiling	None to boiling	None to boiling
Foaming Tendency: Moderate - High	Moderate	Moderate to high	Low
Calculated V.O.C.	0% (0 g/L)	7.37% (78.3 g/L)	0% (0 g/L)
Storage Temperature: 40-110°F (4-43°C)	✓	✓	✓
Shelf Life (Months)	12	24	24

CLEANING RANGES

Dilution Range	5-30%	5-30%	2-50%
Typical Dilution - Process Dependent	10%	10%	10-20%
Temperature Range	130-180°F (54-82°C)	130-170°F (54-77°C)	130-200°F (54-93°C)
Typical Temperature	140-150°F (60-66°C)	140-150°F (60-66°C)	140-200°F (60-93°C)

Product Descriptions

AquaVantage HTD pH-Neutral Immersion Ultrasonic Detergent with no silicates, phosphates or APE/NPE

- Neutral pH formulation provides effective cleaning for a wide range industries.
- A safer cleaner for applications where APE/NPE's, phosphates, and silicates are not tolerated.

AquaVantage 815 QR-NF Heavy-Duty, APE/NPE-Free Immersion & Ultrasonic Detergent

- Provides aggressive cleaning for the heaviest soils found in a wide range of industries.
- Ideal APE/NPE-free detergent for heavy-duty immersion cleaning processes. Ideal for rebuild applications.

Alkaline Deruster HD Heavy Duty Alkaline Degreaser

- Designed for immersion applications that use dipping/turbulation, or ultrasonic agitation.
- Low foaming for use in spray wash applications, with adequate ventilation to control the generation of corrosive spray and aerosol mists.

All products are free of NPE as required by EU/REACH, Canada, and other jurisdictions.

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



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Spray Wash

**AquaVantage
1696 GD**
**AquaVantage
3800 GD**
**AquaVantage
515 NF**

SOILS*

Buffing Compounds (Melt range up to 160°F/71°C)		●+	●
Carbon		●	●+
Coolants	●+	●+	●+
Dirt (Particulate)	●+	●+	●+
Fat		●	●+
Grease	●	●+	●+
Inks	●	●	●
Oil (General)	●	●+	●+
- Cutting	●+	●+	●+
- Drawing Compounds	●+	●+	●+
- Fingerprints	●+	●	●+
- Forming	●	●	●+
- Honey		●+	●+
- Hydrocarbon	●	●	●+
- Lubricants	●+	●+	●+
- Self Emulsifying	●+	●+	●+
- Silicone/Greases	●+	●+	●+
- Sulfur/Chlorinated		●	●+
- Water Soluble	●+	●	●+
Tar & Pitch		●	●+
Waxes (Melt range up to 160°F/71°C)			●

SUBSTRATES*

Steel	●+	●+	●+
Non-Ferrous Metals	Aluminum	●+	●
	Cadmium Plating	●+	
	Chrome Plating	●	●
	Copper (Alloys & Plating)	●+	
	Magnesium & Magnesium Alloys		●
	Titanium & Titanium Plating	●+	●
	Zinc & Galvanized		●
Plastics & Composites*	●	●	●
Glass	●+	●+	●

SYSTEM

Immersion Tanks	●+	●+	●+
Ultrasonic Tanks	●+	●+	●+
Turbulation	●+	●+	●+
Cabinet/Inline Spray	●+	●+	●+

TYPICAL CHEMICAL CHARACTERISTICS

Long Solution Life	●+	●+	●+
pH of Concentrate	8.0	11.7	13.2
pH of Working Solution	7.8	11.0	12.1
Flash Point	>200°F (93°C)	None to boiling	None to boiling
Foaming Tendency: Moderate - High	Low	Low	Low
Cloud Point	>105°F (41°C)/ >120°F (49°C)	>120°F (49°C)	118°F (48°C)
Calculated V.O.C.	3% (32 g/l)	0% (0 g/L)	1.45% (15.83 g/L)
Storage Temperature: 40-110°F (4-43°C)	✓	✓	✓
Shelf Life (Months)	24	24	12

CLEANING RANGES

Dilution Range	5-20%	5-15%	5-15%
Typical Dilution - Process Dependent	7-10%	5-10%	5-10%
Temperature Range	120-170°F (49-66°C)	130-180°F (54-82°C)	120-170°F (49-77°C)
Typical Temperature	120-150°F (49-66°C)	140-150°F (60-66°C)	120-150°F (49-60°C)

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

Product Descriptions

AquaVantage 1696 GD 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.

AquaVantage 3800 GD High Performance Spray Wash Detergent

- Provides unprecedented performance and scope of application. Delivers exceptional degreasing and soil removal. APE/ NPE-free and Phosphate-free.
- Effective in spray, immersion or turbulated immersion systems.

AquaVantage 515 NF Heavy-Duty Spray Wash Detergent

- Low foaming, aggressive cleaning for the most tenacious soils, and broad compatibility with steel, aluminum and most common substrates.
- Use in heavy-duty spray wash cleaning processes.

All products are free of NPE as required by EU/REACH, Canada, and other jurisdictions.



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RP 800

Ready-To-Use Oil-Based Corrosion Inhibitor

Provides indoor protection from rust and corrosion for up to two years. Replaces moisture and eliminates the need for drying step. Effective in high-humidity atmospheres. Easy to remove.

Substrates

Primary application is on ferrous metals, RP 800 also is non-corrosive and non-staining to a wide variety of Non-Ferrous Metals & Alloys such as Aluminum, Brass, Copper (Alloys & Plating), Zinc & Galvanized.

Use Ranges

System	Spray-On Systems Immersion/Dip Tank Brush-On/Wipe-On
Dilution	RTU
Specifications	Color: Light Brown Odor: Solvent

Product Number: 421001

Availability: 5 Gal (19L) • 55 Gal (208L)

RP 802

Concentrated Oil-Based Corrosion Inhibitor

Provides in-process corrosion control and indoor protection from rust and corrosion for up to six months. Dilute with water to form a milky emulsion. May also be diluted with a solvent. Also effective as a spray wash emulsion cleaner/degreaser for cleaning and RP application in one step.

Substrates

Primary application is on ferrous metals, RP 802 also is non-corrosive and non-staining to a wide variety of Non-Ferrous Metals & Alloys such as Aluminum, Brass, Copper (Alloys & Plating), Zinc & Galvanized.

Use Ranges

System	Spray-On Systems Immersion/Dip Tank Brush-On/Wipe-On
Dilution	1 – 10%, typically used at 3 – 5%
Specifications	Color: Brown Odor: Mild

Product Number: 422001

Availability: 5 Gal (19L) • 55 Gal (208L)

RP 835

Concentrated Nitrate-Based Corrosion Inhibitor

Provides paintable, in-process corrosion control and indoor protection from rust and corrosion for 3 to 5 days. Water-dilutable. Parts do not require removal of RP835 prior to painting.

Substrates

Ferrous metals

Use Ranges

System	Spray-On Systems Immersion/Dip Tank Brush-On/Wipe-On
Dilution	3 – 10%, typically used at 5%
Specifications	Color: Water White Odor: Mild

Product Number: 422006

Availability: 5 Gal (19L) • 55 Gal (208L)

RP 837

Super-Concentrated Amine-Based Corrosion Inhibitor

Dilutable corrosion inhibitor provides in-process corrosion control and indoor protection from rust and corrosion for 3 to 5 days. Water-dilutable. Biodegradable.

Substrates

Ferrous metals

Use Ranges

System	Spray-On Systems Immersion/Dip Tank Brush-On/Wipe-On
Dilution	3-10%, typically used at 4%
Specifications	Color: Light Brown Odor: Mild

Product Number: 422004

Availability: 5 Gal (19L) • 55 Gal (208L)

Burlin Copper Protector

Ultra-Concentrated Corrosion Inhibitor

Highly concentrated corrosion inhibitor provides in-process corrosion control. Prevents tarnishing and darkening of copper and its alloys during cleaning, rinse and interim storage. Water-dilutable. Economical – low levels maintain a brilliant appearance on polished parts.

Substrates

Primary application is copper and copper-based surfaces including brass and bronze.

Use Ranges

System	Spray-On Systems Immersion/Dip Tank Brush-On/Wipe-On
Dilution	0.1 – 0.25%
Specifications	Color: Yellow Odor: Sharp

Product Number: 431009

Availability: • 1 Pint

Our Process Improves Your Process

PROVEN SOLUTIONS

OUR APPROACH

- BHC's process cleaning solutions have been developed in consideration of your soils, your systems/equipment and your substrates ... without the compromises of an "all-purpose" solution.
- With over 80 years of proven experience, BHC will work with you to develop a distinct cleaning process solution for you and recommend ways to optimize your process.

Let us prove it to you with our Three Step Process:

1. System Health Check
2. Process Prescription
3. Confirmation Trial



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