



Distribution  
Formulation  
Blending  
Packaging

**Better Chemistry. Better Business.**

## Chemical Solutions for Military Applications

As the nation's most experienced chemical distributor, Hubbard-Hall brings expertise to the intersection of chemistry and industry. Founded in 1849, Hubbard-Hall Inc. is based in Waterbury, CT and reaches internationally as well as within the U.S. Hubbard-Hall is SBA self certified as a small business concern.

ISO 9001:2008; Certification # 84491-IS4 exp. 8/28/2015  
ISO registrar: NSF-ISR

D-U-N-S®: 05-531-0759  
NAICS Code: 325998  
CAGE Code: 94853

### What We Do

- Chemicals: Distribute over 5,000 commodity chemicals
- Surface finishing products for industrial manufacturing and remanufacturing applications for military, aerospace, defense vehicles, components and other hardware
- Chemical Services: Technical, value-added process support services including training, lab analysis and process improvement audits

### Customers (Sample List)

Anniston Army Depot  
ATK Alliant Lake City  
Boeing Company  
Colt Companies  
FN Manufacturing  
General Dynamics  
Lockheed Martin  
Marlin Firearms  
Maverick Arms  
Pratt & Whitney  
Raytheon  
Red River Army Depot  
Remington Arms Company  
Rockford Acromatics  
Sikorsky Aircraft  
United Avionics Incorporated

### Product Lines Available

**Aquaease™** Aqueous cleaners  
**AquaMill™** Mass finishing  
**Aquapure™** Wastewater treatment  
**Aquastrip** Coatings and CARC strip  
**Black Magic™** Black oxide  
**Emerald HD** DfE recognized cleaners  
**Enviroguard** Aerospace solvent blends  
**Hubtron PB** (stabilized nPB) Solvent cleaners, SNAP/EPA approved  
**Laser Guard** Brighten copper and brass  
**Lusterclean™** Heavy alkaline degreaser/deruster  
**Metal Guard®** Aqueous and oil based rust inhibitors  
**Mi-Clean™** Surface cleaners  
**Mi-Phos™** Phosphates for iron, zinc and manganese  
**Military Deruster** Specifically formulated for Military Apps  
**Stripol™** Metal Strippers



P.O. Box 790 • Waterbury, CT 06720-0790 • Tel: (203) 756-5521 • Fax: (203) 756-9017

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## MIL Spec Product Offerings\*

### Phosphates

#### Ferrous Metal Surfaces and Pre-Treatment for Organic Coatings

- TT-C-490E Type I: M-Phos™ Z-3
- TT-C-490E Type II: M-Phos™ 26, Hubfos 12-S and Hubfos 150
- TT-C-490E Type V: Mi-Phos™ Z-10

### Black Oxide Coatings

#### Ferrous Metals

- MIL-DTL-13924D Class I: Black Magic™ Infusion
- MIL-DTL-13924D Class IV: Black Magic™ SSL

#### Copper Alloys

- MIL-F-195D: Black Magic™ CBL

### Phosphate Coatings

#### Phosphate Coating, Heavy, Manganese or Zinc Based

- A-A59267 Type Z / MIL-DTL-16232G Type Z: Mi-Phos™ Z-2
- A-A59267 Type M / MIL-DTL-16232G Type M: Mi-Phos™ M-5

### Rust Preventative

#### Corrosion Prevention Compound, Solvent Cutback, Cold-Application

- MIL-PRF-16173E Grade 3: Metal Guard® 100, 400, 500 Series

### Chemical Conversion Coatings

#### Aluminum Alloys

- MIL-C-5541E Class 3: Hallcoat A 1

### Heat Treating Salts

- MIL-S-10699B Class 1: Quick Cure 275
- MIL-S-10699B Class 2: Quick Cure 420
- MIL-S-10699B Class 5: Neutral Salt B
- MIL-S-10699B Class 8: Neutral Salt HH

\* This is only a sample of the products applicable for military applications. If there is another application or product line you are looking for please contact Hubbard-Hall



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