



## Technical Data Sheet

**BIOACT® 280**

### Product Description

**BIOACT 280 Precision Cleaner** is a USDA Certified Biobased semi-aqueous cleaner is based on a blend of aliphatic esters and surface-active agents. It is designed to quickly dissolve paraffinic, microcrystalline plating wax and thermoplastic fixturing waxes. BIOACT 280 is approved by leading aircraft OEMs. It also effectively removes pitches, greases, buffing compounds, metalworking fluids and lubricating oils. BIOACT 280 is a suitable replacement for trichloroethylene (TCE), HCFC-141b, HCFC-225, perchloroethylene (PCE), methylene chloride (MeCl), n-propyl bromide (*n*PB) and petroleum-derived solvents for dewaxing operations. BIOACT 280 is compatible with many polymeric substrates, elastomers and is safe for use with ferrous and non-ferrous alloys.

### Features and Benefits

- Removes High Melting Soils
- Material Compatibility
- Replaces Vapor Degreasing
- Up to 40% Wax Loading
- Replaces Hot Oil
- Very Low Odor
- USDA Certified Biobased
- Non-Corrosive
- Aerospace Approved
- Low Toxicity

### Properties

|                          |                 |
|--------------------------|-----------------|
| Odor                     | Very Low        |
| Flash Point              | 285 °F (141 °C) |
| Specific Gravity (25 °C) | 0.87            |
| Vapor Pressure (20 °C)   | <0.002 mmHg     |
| Viscosity (25 °C)        | 7.3 cps         |
| Kauri-Butanol (KB) Value | 90              |

### Soils Removed

- Coolants
- Paraffinic Wax
- Fixturing Waxes
- Pitches
- Greases
- Plating Waxes
- Hydraulic Fluids
- Polishing Compounds
- Microcrystalline Wax
- Buffing Compounds

### Equipment

Suitable for use in a variety of commercially available cleaning equipment including heated immersion tanks.

### Process

|                            |                       |
|----------------------------|-----------------------|
| Wash Bath Concentration    | 100% concentration    |
| Wash Bath Temperature      | 190-205 °F (88-96 °C) |
| DI Water Rinse Temperature | 190-205 °F (88-96 °C) |

Vantage Specialties, Inc.

3938 Porett Drive • Gurnee, Illinois 60031 USA • P +1 847 244 3410 • F +1 847 249 6346 • [www.vantagegrp.com](http://www.vantagegrp.com)



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### Environmental/Regulatory

|  |                  |
|--|------------------|
| Ozone Depletion Potential (ODP)                                    | Zero             |
| Global Warming Potential (GWP)                                     | Essentially Zero |
| Hazardous Air Pollutant (HAP)                                      | No               |
| Volatile Organic Compound (VOC)                                    | 137 g/L          |
| Superfund Amendments and Reauthorization Act (SARA)                | Not regulated    |
| National Emission Standards for Hazardous Air Pollutants (NESHAPs) | Not Regulated    |
| Resource Conservation and Recovery Act (RCRA)                      | Not Regulated    |

### Disposal/Safety

#### Disposal

Vantage recommends contacting your current or local environmental service company for proper disposal.

#### Safety

Please see Safety Data Sheet for further information.

### Approvals/Testing

#### Approvals

**General Electric Aviation** as a general parts cleaner and as a plating wax remover on GEAE and CFMI engine hardware.

**General Electric Aviation** per the Master Cleaner List 3.6.5 identified in GE Aviation SCWC (supply chain web center), Semi-Aqueous Immersion Cleaners (100%)

**Honeywell** Process Specification C7010, Rev H

**International Aero Engines (IAE)** CoMat 01-460

**Pratt & Whitney** MCL E-205 Titanium Stress Corrosion Test

**Pratt & Whitney** as PMC 8913-1,-2 Wax Removal Solvent for SPOP 37 Method 2 Removal of Plating Wax (SPM Rev 120, Part #585005)

**Pratt & Whitney** as PMC 8913-1,-2 Wax Removal Solvent for POP 1800-U Masking of Parts Prior to Selective Painting, Chemical Processing, Painting or Stripping

#### Testing

ASTM F1110, F2111, F945, F519

Conforms to **Honeywell** EMS 53170 Rev C 10-21-97 Type 1

Supported by **Hawker Pacific Aerospace**, U.K. as a General Purpose High Temperature Degreasing Agent

### Packaging

Available in 36 lb (16 kg) pails and 400 lb (181 kg) drums.

### Shelf Life

36 months when stored in original, sealed container 50 °F (10 °C). Protect product from freezing.

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BIOACT<sup>®</sup> 280



ISO 9001:2008



**RoHS**  
Compliant



**LEAD FREE**



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