

## Technical Data Sheet

## BIOACT™ 105

### Product Description

**BIOACT 105 Precision Cleaner** is a high purity, fast drying solvent designed to leave substrates with low surface residues. BIOACT 105 is designed for hand wiping and immersion applications to effectively remove difficult soils such as adhesives, buffing and polishing compounds, corrosion inhibiting compounds (CICs), greases, paint overspray, silicones and waxes. It is a direct replacement for acetone, isopropyl alcohol (IPA), methyl ethyl ketone (MEK) and other low flash point, flammable materials. The low vapor pressure of this cleaner can result in a significant reduction in VOC emissions. BIOACT 105 is compatible with many polymeric substrates, elastomers and is safe for use with ferrous and non-ferrous alloys.

### Features and Benefits

- Fast Dry Time
- Replaces IPA, MEK, Acetone
- Excellent Solvency
- Low Toxicity
- Removes Difficult Soils
- Surface Preparations
- Good Soil Loading
- Material Compatibility
- Low Surface Residues

### Properties

Odor	Mild citrus/alcohol
Flash Point	105 °F (41 °C)
Specific Gravity (25°C)	0.80
Viscosity	1.6 cps
Kauri-Butanol (KB) Value	>150
Vapor Pressure (20 °C)	1.5 mmHg
Dielectric Strength	40.1 kV

### Soils Removed

- Adhesives
- Inks
- Asphalts
- Mold Release Compounds
- Buffing Compounds
- Paint Overspray
- Corrosion Inhibitors
- Particulate Matter
- Coolants
- Polishing Compounds
- Fingerprints
- Sealants
- Greases
- Silicones
- Tars
- Hydraulic Fluids
- Waxes

### Equipment

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

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### Process

**Manual Cleaning/Degreasing:** Apply BIOACT 105 at full concentration to the desired substrate by brush, pad or cloth.

**Manual Surface Preparation (Damp Dry Method):** Prior to bonding, sealing or coating, apply BIOACT 105 at full concentration to the desired substrate with a low lint cloth. Before the solvent begins to evaporate, wipe the wetted substrate with a clean dry low lint towel.

**Immersion Cleaning:** Add BIOACT 105 at full concentration to the wash tank reservoir. The use of ultrasonics or heat is not recommended.

### Environmental/Regulatory

Ozone Depletion Potential (ODP)	Zero
Global Warming Potential (GWP)	Low
Hazardous Air Pollutant (HAP)	No
Volatile Organic Compound (VOC)	800 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)	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

#### Commercial

AMS 3167 QPL Approved, AMS-3167B:2005 Class 1, Form 1, Types 1 and 2 – Solvents, Wipe for Cleaning Prior to Application of Primer and Top Coat Materials, or Sealing Compounds

AMS 3819 (BIOACT 105 Pre-Saturated Wipes, Aerospace Grade Wipes Material)

American Airlines CPN M018325

Bell Helicopter Bulletin No: 1915 Solvents, Blended Organic, Cold Degreasing (Liquid and Pre-Saturated Wipes)

Bombardier BAPS 180-009 General (G) Manual Solvent Cleaner

Bombardier Consumable Products Manual 8-12A – SOLVENT, Degreaser, Ele Wiring Harness, Components (Q400)

Bombardier TASK 20-30-00-110-805 Chem Cleaning of the Ele Wiring Transition, Adapter, Overbraid (Q400 AMM)

Bombardier TASK 61-20-36-110-801 Chemical Cleaning of the Propeller Electronic Control Unit (Q400 AMM)

Bombardier TASK 20-30-110-801 Chemical Cleaning of the Electrical Wiring Component (Q400 AM)

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Bombardier TASK 20-30-00-110-802 Ext Chemical Cleaning of the Ele Wiring Connector and the Backshell (Q400 AMM)  
Bombardier TASK 20-30-00-110-803 Internal Chemical Cleaning of the Electrical Wiring Connector (Q400 AMM)  
Bombardier TASK 20-30-00-150-802 Stripping of the Corrosion Inhibiting and Corrosion Preventative Compounds (Q400 AMM)  
Bombardier TASK 51-21-26-340-801 Application of RTV Silicone Adhesive (Q400 AMM)  
CFM International CP# 2719 Rev 76  
GE Aviation C04-251  
GE Aviation Cleaning Method No 23 Hand-Wipe Degreasing, SPM Task 70-21-23-110-053  
GE Aviation Alt to SPM TASK 70-21-01-110-001 Cleaning Method No 1 Solvent Degreasing  
GE Aviation Alt to SPM TASK 70-21-22-110-042 Cleaning Method No 22 Light Duty Aqueous Cleaning  
Gulfstream Aerospace Standard GAS115H for Solvent Cleaner/Degreaser, Mixed Hydrocarbons, Part# GAS115H1  
Honeywell C5049 Cleaning of Titanium and Titanium Alloys  
International Aero Engines (IAE) CoMat 01-506 (Liquid), CoMat 01-506A (Pre-saturated Wipes)  
Pratt & Whitney PMC 8929 Hand Wiping Solvent, SPOP 208 Degreasing of Parts by Solvent Wiping (SPM Rev 120, Part# 585005)  
Pratt & Whitney PMC 8929 Hand Wiping Solvent, POP 1800-U Masking of Parts Prior to Selective Painting, Chemical  
    Processing, Painting, Stripping  
Pratt & Whitney PWA 36604 Rev D Hot Corrosion (AMS 4037)  
Rolls-Royce CSS No 255 Type A Non-Halogenated Organic Solvent Cleaner (MLC104)  
Rolls-Royce OMat 1/257S Solvent Cleaner  
United Airlines Engine Parts Cleaning, Part #: SOL3001-17 for BIOACT 105 Precision Cleaner  
United Airlines Engine Parts Cleaning, Part #: SOL3001-17TWL10X12 for BIOACT 105 Pre-Saturated Wipes

**Military**

NSN # 7930-01-596-8655

**Testing**

Airbus AIMS 09-00-002 (excludes acrylic and polycarbonate crazing)  
AMS 1526C (excludes flash point, effects on transparent acrylic plastics, and storage stability)  
Boeing D6-17487 (excludes acrylic crazing)  
Douglas CSD #1 (excludes acrylic crazing)  
ASTM F 945, ASTM F 1110, ASTM F 502, ASTM F 519, ASTM F 485, ASTM F 483, ASTM F 2111, ASTM D 3941, ASTM D 2879, ASTM D 1901, ASTM D 1613, ASTM B 117, ASTM G 46  
Dissimilar Metal Corrosion (AMS 3167)  
Cleaning Prior to Painting – Removal of Contaminants (AMS 3167)  
Cleaning Prior to Sealant – Removal of Contaminants, (AMS 3167)  
Removal of Uncured Sealant (AMS 3167)  
Removal of AMS 3100 Adhesion Promoter (AMS 3167)  
Effects on Fuel Tank Sealants (AMS 3167)  
Effects on Carbon/Epoxy Composites (AMS 3167)

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Effects on Polyamide Insulated Wire (AMS 3167)

Cold Storage Stability (AMS 3167)

Paint Softening Test (Airbus AIMS 09-00-002)

### Packaging

Available in 35 lb (16 kg) pails and 365 lb (166 kg) drums.

### Shelf Life

36 months when stored in original, sealed container above 50 °F (10 °C).



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