SMI, Inc.

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Attn:

Marc Rutten

Date:

26-Jan-2001

Diamond Cleaning Products B.V.B.A.

Schaggeleweg 53

B-2390 West Malle BELGIUM

SMI/REF:

00AUG452

Product:

DCP BIOX 256 (received 29-Nov-2000)

Dilution:

As received and 20 percent

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Douglas Aircraft Company Customer Service Document

CSD #1, Revised August 2, 1988

Type I: Materials and Procedures for General Exterior Cleaning of Painted and Unpainted Surfaces

Conform Effect on Painted Surfaces Conforms Residue Conforms Sandwich Corrosion Conforms Stress Crazing Test on Acrylic Plastics Immersion Corrosion, Aluminum Conforms Conforms Cadmium Removal Conforms Hydrogen Embrittlement

Respectfully submitted,

Patricia D. Viani, SMI Inc.

Client:

Diamond Cleaning Products

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Effect on Painted Surfaces Test: The material shall not produce a decrease in paint 1. film hardness greater than one pencil; that is the number of the next softer pencil, or any discoloration or staining when tested in accordance with ASTM F 502. At least two panels shall be used per test.

As received:

No softening or discoloration of polyurethane topcoat

when checked 24 hours after exposure per ASTM F 502.

Dilute:

No softening or discoloration of polyurethane topcoat when checked 24 hours after exposure per ASTM F 502.

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Result	Conforms	
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Residue Test: The material shall leave no residue or stain when tested in 2. accordance with ASTM F 485.

AMS 4911: (As received): PASS

Dilute: PASS

AMS 4049: (As received): PASS

Dilute: PASS

Result Conforms

- Sandwich Corrosion Test: The compound shall not cause significant corrosion of 3. aluminum alloy faying surfaces when tested in accordance with the following conditions of temperature and humidity:
 - Alternate intervals of 16 hours in the humidity cabinet and eight hours in an oven. Beginning with the humidity cabinet exposure, the cycling test shall be continued for a total of seven days.
 - The humidity cabinet shall be maintained at 100° ±2°F (37.8° ± 1.1°C) and 98 to 100 percent relative humidity.
 - The oven shall be maintained at $100^{\circ} \pm 5^{\circ}F$ (37.8° $\pm 2.8^{\circ}C$)

Corrosion Rating:

No visible corrosion 0

Very slight corrosion or discoloration 1 =

2 Slight corrosion =

3 Moderate corrosion =

4 Extensive corrosion Client: Product:

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Sandwich Corrosion Test: continued

Corrosion on any panel exceeding that obtained using tap water shall be considered excessive.

ALLOY	As Rec'd	Dilute	CONTROL
2024-T3 Bare/Alodined per MIL-C-5541	1	1	1
2024-T3 Bare/Anodized per MIL-A-8625	1	1	1
2024-T3 Clad/Alodined per MIL-C-5541	1	1	1
2024-T3 Clad/Anodized per MIL-A-8625	1	1	1
7075-T6 Clad/Alodined per MIL-C-5541	1	1	1
7075-T6 Clad/Anodized per MIL-A-8625	1	1	1

Result	Conforms	
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Stress Crazing Test on Acrylic Plastics: The compound shall not cause crazing, 4. cracking, or other attack on acrylic based plastics when tested in accordance with ASTM F 484, using Type C material at a stress level of 4500 psi.

As received:

No crazing, cracking, or other attack.

Dilute:

No crazing, cracking, or other attack.

D	0
Result	Conforms

Immersion Corrosion Test: The average weight loss of aluminum alloy specimens 5. shall not exceed 10 milligrams per coupon when tested per ASTM F 483. The aluminum alloy 7075-T6 alclad coupons shall conform to Federal Specification QQ-A-250/13 Temp-T6, with corners and edges smoothed.

As received:

+ 0.3 mg after 168 hours (no visible corrosion)

Dilute:

0.3 mg after 168 hours (no visible corrosion)

Result	Conforms	

Clie	nt: luct:	Diamond Cleanin DCP BIOX 256	ng Products	Date SMI	e: /REF:	26-Jan-2001 00AUG452	
	tion:	As received and	The state of the s				
Dou	glas CS	SD #1, Revised Aug	gust 2, 1988	Pag	e 4 of 4		
6.	emb wher spec and	mium Removal Test rittlement cadmium n tested per ASTM simens shall be 1 x 2 edges smoothed a rittlement cadmium As received:	plated steel shall F 483. The test x 0.040 inch 4130 and then plated w plating (P/N 745) + 0.9 mg after	all not exceed 10 st duration shall to steel panels (MIL ith 0.003 to 0.006 2876-23) or 24 hours (no vi	milligra be 24 h -S-187 6 inch d	ams per coupon nours. The test (29) with corners of low hydrogen corrosion)	
		Dilute: + 0.3 mg after 24 hours (no			Visible corrosion)		
				Result	Co	nforms	
7.		rogen Embrittlemen ASTM F 519, Type As received:	1C.	orittlement testing		e in accordance	
		Dilute:	No failures w	vithin 150 hours.			
				Result	Co	nforms	