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Attn: Jutta Eisler-Zimmerman
Adexano
Spezialprodukte für Gesundheit
Pflege und Prävention GmbH
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Date: 21-Jan-2011

SMI REF: 1011-979

Product: **BACOBAN** (received 23-Dec-2010)

Dilution: As received

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AMS 1452B
DISINFECTANT, AIRCRAFT; GENERAL PURPOSE

3.2.1.1	Flash Point	<u>Conforms</u>
3.2.1.2	Storage Stability	
3.2.1.2.1	Elevated Temperature	<u>Excluded (Requires 12 mo.)</u>
3.2.1.2.2	Cold Temperature	<u>Excluded (Requires 12 mo.)</u>
3.2.2.1	Corrosion of Metal Surfaces	
3.2.2.1.1	Total Immersion Corrosion	<u>Conforms</u>
3.2.2.1.2	Sandwich Corrosion	<u>Conforms</u>
3.2.2.2.1	Effect on Transparent Plastic	<u>Conforms</u>
3.2.2.2.2	Effect on Painted Surfaces	<u>Conforms</u>
3.2.2.2.3	Effect on Rubber	<u>Conforms</u>
3.2.2.2.4	Effect on Vinyl Surfaces	<u>Conforms</u>
3.2.2.2.5	Effect on Tedlar Surfaces	<u>Conforms</u>

Respectfully submitted,



Patricia D. Viani, SMI Inc.

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3.2.1 Concentrated Disinfectant:

3.2.1.1 Flash Point: Shall be not lower than 100°C (210°F), determined in accordance with ASTM D56.

Product: No flash observed to 212°F

Result Conforms

3.2.1.2 Stability: Disinfectant shall meet the requirements of 3.2.1.2.1 and 3.2.1.2.2, determined in accordance with ASTM F 1104.

3.2.1.2.1 Elevated Temperature: Disinfectant shall evince no separation or stratification after exposure for 120 hr ± 1 at 50°C ± 3 (122°F ± 5).

Complete ASTM F 1104 requires 12 months storage of product, with subsequent examination.

Result Excluded (Requires 12 mo.)

3.2.1.2.2 Cold Temperature: Disinfectant shall evince no precipitation, stratification, layering, or separation after being exposed for 120 hrs ± 1 at -10°C ± 3 (14°F ± 5), warmed to room temperature, and the sample container inverted 3 times prior to evaluation.

Complete ASTM F 1104 requires 12 months storage of product, with subsequent examination.

Result Excluded (Requires 12 mo.)

3.2.2 Concentrated Disinfectant and At Use Dilution:

Note: all tests were performed on the product, as received (no additional dilution)

3.2.2.1 Corrosion of Metal Surfaces:

3.2.2.1.1 Total Immersion Corrosion: Disinfectant shall neither show evidence of staining, pitting, or corrosion nor cause an average weight change of AMS 4049 a/c clad aluminum alloy panels greater than 0.3 mg/cm² per 24 hours, determined in accordance with ASTM F 483.

Product: + 0.03 mg/cm²/24hrs

Result Conforms

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3.2.2.1.2 Sandwich Corrosion: Specimens of AMS 4049 alclad aluminum alloy, after test, shall show a rating not worse than 1 or not worse than control panels using ASTM D 1193, Type VI water, determined in accordance with ASTM F 1110.

	RATING: AMS 4049 ALCLAD ALUMINUM
PRODUCT	1
CONTROL	1

Result Conforms

3.2.2.2 Effect on Aircraft Materials:

3.2.2.2.1 Effect on Transparent Plastics: Disinfectant shall not craze, stain, or discolor Type C acrylic plastic, determined in accordance with ASTM F484. Disinfectant shall not craze, stain, or discolor MIL-P-83310 polycarbonate plastic or polysulfone plastic, determined in accordance with test procedures specified in ASTM F484 on specimens stressed for 10 min. \pm 1 to an outer fiber stress of 2000 psi (20MPa).

	As received
Type C Acrylic (MIL-P-25690) [4500 psi / 8 hours]	No craze, stain nor discoloration
Polycarbonate (AMS-P-83310) [2000 psi / 10 minutes]	No craze, stain nor discoloration
Polysulfone plastic [2000 psi / 10 minutes]	No craze, stain nor discoloration

Result Conforms

3.2.2.2.2 Effect on Painted Surfaces: Disinfectant shall neither decrease the hardness of the paint film by more than two pencil hardness levels nor shall it produce any streaking, discoloration, or blistering of the paint film, determined in accordance with ASTM F502.

**Product: No decrease in film hardness.
 No evidence of streaking, discoloration or blistering.**

Result Conforms

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3.2.2.2.3 Effect on Rubber: Disinfectant shall neither cause more than 25% loss of tensile strength and 25% loss in elongation nor cause more than $\pm 15\%$ change of volume, when tested on material specified by the purchaser, in accordance with ASTM D 471. The test conditioning shall be performed at room temperature and the immersion period shall be 24 hours.

Rubber: *AMS 3209 Chloroprene Rubber, 65-75*
Product: *< 10% change in tensile strength*
< 10% change in elongation
< 10% change in volume

Result Conforms

3.2.2.2.4 Effect on Vinyl Surfaces: Disinfectant shall neither cause scratching nor more than a minimal color change or staining, when tested in accordance with ASTM F 2109.

Product: *No scratching nor discoloration*

Result Conforms

3.2.2.2.5 Effect on Tedlar Surfaces: Disinfectant shall neither cause scratching nor more than a minimal color change or staining, when tested in accordance with ASTM F 2109.

Product: *No scratching nor discoloration*

Result Conforms