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Attn:

Jutta Zimmerman

Date:

25-Nov-2020

Ropimex R. Opel GmbH Bildstocker Strasse 12 66538 Neunkirchen

SMI/REF:

2008-012

Germany

Product:

BACOBAN DL (received 23-Sep-2020)

Dilution:

As received

Quality

3.3

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AMS 1451C

Disinfectant, Aircraft
For Use in Cargo Compartments

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Conforms

3.2	Properties	
3.2.1	Flash Point	Conforms
3.2.2	Residue	Conforms
	Corrosion of Metal Surfaces 2.3.1 Sandwich Corrosion 2.3.2 Total Immersion Corrosion	Conforms Conforms
3.2.4	Temperature Stability	Conforms
3.2.5	Effect on Painted Surfaces	Conforms
3.2.6	Effect on Transparent Plastics	Conforms
	Storage Stability 2.7.1 Short-Time Test 2.7.1.2 Long-Time Storage	Does not conform Not performed

Respectfully submitted,

Patricia D. Viani, SMI Inc.

Client: Product: Ropimex R. Opel GmbH

Dilution:

AMS 1451C

As received

BACOBAN DL

Date: SMI/REF:

Result

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3.2	Properties: Disinfectant shall conform to the following requirements; tests shall be
	performed in accordance with specified test methods on the disinfectant supplied in
	concentrated form:

3.2.1 Flash Point: Disinfectant shall not exhibit a flash point lower than 65°C (149°F) determined in accordance with ASTM D 56.

AS RECEIVED:	No Flash Point to	*(IBP)	100 °C	(212°F)
*Initial Boil	ing Point			

3.2.2 Residue: Two 2" x 6" (51 x 152 mm) panels of AMS4049 aluminum alloy shall be degreased with a suitable solvent and immersed in a sufficient quantity of the disinfectant to cover approximately one-half of the panel. After the disinfectant has been applied, the panels shall be placed at 45 degrees from the horizontal in an oven maintained at 38°C ±1°C (100°F ± 2°F) for 30 minutes ± 1 minute, removed from the oven, rinsed with room temperature methyl ethyl ketone, or other suitable solvent and allowed to dry. The treated and untreated areas of the panel shall be visually examined and compared; there shall be no residue or stains on the treated or untreated surfaces.

> AS RECEIVED: No residue or stains

Result	Conforms	1

Conforms

- 3.2.3 Corrosion of Metal Surfaces:
- 3.2.3.1 Sandwich Corrosion: Specimens of AMS4049 aluminum alloy, after test, shall show a rating not worse than one or not worse than control panels using ASTM D 1193, Type IV water determined in accordance with ASTM F1110.

TE 10" 11 1	RATING:
	AMS 4049 ALCLAD ALUMINUM
AS RECEIVED	C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CONTROL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Result	Conforma	
Result	Conforms	100

		GARON EN			
Client:	Ropimex R. Opel	GmbH	Dat	te:	25-Nov-2020
Product:	BACOBAN DL		SM	II/REF:	2008-012
Dilution:	As received				
AMS 1451C				ge 3 of 4	
nor a	weight change gr aluminum alloy, c	sion: Disinfectant slater than 0.3 mg/colletermined in accordent + 0.01 mg/cm²/2 mg/t gain	m ² per 24 hou dance with AS A 4hrs	irs for an	y panel of AMS 3.
			Result	Con	forms
includir	ng evidence of disc	sinfectant shall show oloration, layering, o ours ± 1 hour at 2° C No physical or o	rotherchange ± 3°C (36° F	edenoting ± 5°F).	g loss of stability
			Result	Conf	orms
hardne	ss by more than tw ration, or blistering	es: Disinfectant shale pencil hardness le got the paint film, de	vels nor shall	it produc	e any streaking

AS RECEIVED: No decrease in film hardness. No evidence of streaking, discoloration or blistering.

Result	Conforms

3.2.6 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 AMS-P-83310 polycarbonate plastic, determined in accordance with test procedures specified in ASTM F484 on specimens stressed for 10 minutes ± 1 minute to an outer fiber stress of 2000 psi (13.8 MPa).

	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

Result	Conforms	
1Court_	COMOTING	

Client:

Ropimex R. Opel GmbH

Product: Dilution: BACOBAN DL As received

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227	Storage	Stability:
J.Z.1	Silviage	Stability.

3.2.7.1 Short-Time Test: Disinfectant shall remain homogeneous and free of lumps and skin formation and shall show no evidence of layering, separation, settling or crystallization, determined on samples subjected to five freeze-thaw cycles as in 3.2.7.1.1.

CONCENTRATE: Product did not remain homogeneous; evidence of layering* (color separation: clear upper layer, pinkish lower layer)

Result *Does not conform

3.2.7.1.2 Long-Time Storage: Disinfectant shall be stable or shall be restorable to its original appearance by moderate shaking and shall meet all of the other properties of 3.2 when stored in shipping container or use package for not less than 12 months from date of receipt by purchaser or within manufacturer's shelf life of the product, determined in accordance with ASTM F1104.

Result	Not performed	
1 (Coult	Not perioritied	

3.3 Quality: Disinfectant, as received by purchaser, shall be a uniform mixture, shall show no separation or layering, and shall be free from foreign materials detrimental to usage of the disinfectant.

Result	Conforms

