Subject: **Certificate of Conformance for Aero-Green 4160 Parts Washer Degreaser to: MIL-PRF 29602A Cleaning Compound, Parts Washer and Spray Cabinet Type1: Water Soluble Liquid Concentrate**

Certificate of Conformance

Hi-Lite Solutions, Inc. produces the following products in the united States: Aero-Green 4160 Parts washer Degreaser which was formerly known as Hurrisafe 9065 Parts washer Degreaser that was tested and certified to MIL-PRF 29602A,. Hi-Lite Solutions Inc declare the formulas to be the same, without any changes, using the same raw ingredients and the same manufacturing procedures and practices to produce the finished product Aero-green 4160 Parts Washer Degreaser.

Hi-Lite solutions Inc. for the purposes of this Letter of Conformance represents that the formula was tested as outlined below and is certified to MIL 29602A.

It is understood by that the commitments referred to above will remain valid until the new certifications under the new test under the new product name is completed and published on the Hi-Lite Solutions website*

Test

1. MIL-PRF-29602A (31 January 2005) Cleaning Compounds, Parts Washer and Spray Cabinet, Type 1, Water soluble Liquid Concentrate.
2. 40 CFR 796.3100: Aerobic Aquatic Biodegradation Code of Federal Regulations Environmental Protection Agency Title 40: Protection of Environment Part 796: chemical fate Testing Guidelines Shake flask Method
3. Storage Stability Testing in accordance with: MIL-PRF-9602A (31Jan2005) Cleaning Compounds, Parts Washer and Spray Cabinet (Initial Qualification test Report dated 28-Oct-2005)

Bobbie Pettit

Bobbie Pettit
VP Business Development

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Date: 28-Oct-2005

SMI/REF: 05JUN576

Product: **HURRISAFE 9065 DEGREASER** *(Batch # 060205-5)*
(received 03-Jun-2005)

Dilution: 9 parts water to 1 part product

MIL-PRF-29602A (31January 2005)
CLEANING COMPOUNDS, PARTS WASHER AND SPRAY CABINET
Type I: Water Soluble Liquid Concentrate

3.5.1	Biodegradability	Conforms
3.5.2	Non-Volatile Content (Type I)	Informational
3.5.3	Flash Point	Conforms
3.5.4	pH	Informational
3.5.5	Foaming Characteristics	Conforms
3.5.6	Corrosivity	
	3.5.6.1 Titanium Stress Corrosion	Conforms
	3.5.6.2 Total Immersion Corrosion	Conforms
	3.5.6.3 Hydrogen Embrittlement	Conforms
3.5.7	Stability	
	3.5.7.1 Hard Water Stability	Conforms
	3.5.7.2 Storage Stability	Due June 2006
	3.5.7.3 Accelerated Storage Stability	Conforms
3.5.8	Cleaning Efficiency	Conforms
3.5.9	Oil Separation	Conforms
3.5.10	Workmanship	Conforms
3.5.11	Service Evaluation	Not performed

Respectfully submitted,

Patricia D. Viani, SMI Inc.

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3.5.1 Biodegradability: The supplier of the cleaning compounds shall ensure that the surfactants used in the cleaning compound are biodegradable in accordance with 40 CFR, Part 796, Subpart D. Testing for biodegradability shall be in accordance with 4.5.1. The cleaning compounds shall meet the requirement of not less than 85 percent biodegradable at the end of the 28-day period specified in 4.5.1.

Biodegradability: 90.7%

Result Conforms

3.5.2 Nonvolatile content: The cleaning compound qualification sample shall be tested for nonvolatile content in accordance with 4.3 and table II.

Concentrate:
Nonvolatile content: 25.1%

Result Informational

3.5.3 Flash Point: The Pensky-Martens flash point of the concentrated liquid cleaning compound shall be greater than 212°F (100°C) when tested in accordance with 4.3.

Concentrate:
No flash observed to 212°F

Result Conforms

3.5.4 pH: The pH of the cleaning compounds shall be tested using the manufacturer's recommended cleaning concentration in accordance with 4.3. Conformance inspection results shall not differ from the qualification values by more the ± 0.5 units.

Dilute: pH = 12.2

Result Informational

3.5.5 Foaming characteristics: At the manufacturer's recommended concentration, the cleaning compounds shall produce a foam volume of not more than 100ml, when tested at 120°F (49°C) and 160° F (71° C) in accordance 4.5.2.

Dilute:
120°F: Fewer than 100 mls foam
160°F: Fewer than 100 mls foam

Result Conforms

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3.5.6 Corrosivity:

3.5.6.1 Titanium stress corrosion: The cleaning compounds shall not produce any microscopic cracking when tested at the manufacturer's recommended concentration and examined metallographically at 500X magnification (see 4.3).

Dilute:

AMS 4911: No evidence of cracking
AMS 4916: No evidence of cracking

Result Conforms

3.5.6.2 Total immersion corrosion: The cleaning compounds shall cause neither visual corrosion nor a weight change of any specimen greater than that shown in table I, when tested at the manufacturer's recommended concentration and in accordance with 4.5.3.

Dilute (9:1), Temperature: 160°F Immersion time 24 hours

Test Panel Material	Former Designation	Allowable weight change (mg/cm^2 / 24hours)	**Results**
Aluminum (SAE-AMS-A-250/4)	Alloy 2024; QQ-A-250/4-T3	0.04	**0.01**
Aluminum (SAE-AMS-A-250/4) anodized per MIL-A-8625 Type I	Alloy 2024; QQ-A-250/4-T3 anodized per MIL-A-8625, Type I	0.04	**0.03**
Carbon steel (SAE-AMS 5046)	SAE 1020	0.04	**0.01**
Copper (ASTM-B152)	NA	0.10	**0.03**
Magnesium (SAE-AMS 4375), bare	AZ31B-0	0.20	**0.03**
Nickel (SAE-AMS 5536)	Hastelloy X	0.04	**0.01**
Stainless steel (ASTM-A240, Class 410)	NA	0.04	**0.01**
Carbon steel (SAE-AMS 5046) plated per SAE-AMS-QQ-P-416 Type I Class III	SAE 1020 plated per SAE-AMS-QQ-P-416	0.20	**0.01**
Titanium (SAE-AMS-T-9046, Type III, Comp. C)	Type I, 6Al 4V	0.04	**0.01**

Result Conforms

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3.5.6.3 Hydrogen Embrittlement: When tested at the manufacturer's recommended concentration in accordance with 4.5.4, neither cadmium plated AISI 4340 steel specimens nor IVD aluminum coated AISI 4340 steel specimens shall exhibit embrittlement. Four specimens of each coating shall be tested using either the sustained load procedure or the step load procedure. For the sustained load procedure, embrittlement is indicated if a specimen fractures in less than 200 hours when loaded to 75 percent notched fracture strength. If only one of the four specimens fractures, step load the remaining three specimens at 5 percent of the notched fracture strength per hour to failure. If these 3 specimens achieve 90 percent for 1 hour, the chemical shall be considered non-embrittling. For the step load procedure, embrittlement is indicated if a specimen fractures at less than 90 percent of notched fracture strength.

Cadmium-plated specimens shall be prepared as specified using ASTM-F519, treatment B, without conversion coating. Ion vapor deposited (IVD) aluminum specimens shall be prepared in accordance with MIL-DTL-83488, class 2, type II. IVD specimens shall be burnished following deposition prior to supplementary chromate treatment. The coatings shall cover the notch and surfaces within 0.5 inch of the notch; threaded surfaces shall not be coated. Cadmium-plated specimens shall be baked in accordance with ASTM-F519.

Four specimens for each coating shall be individually exposed, immediately dried, then immediately tested for embrittlement. Exposure shall consist of immersion in a glass beaker containing fresh cleaning solution per product (at the manufacturer's recommended concentration) at 160 ± 2 °F (71 ± 1 °C) for 30 minutes. Specimens shall be dried without rinsing at ambient conditions for five minutes. Embrittlement testing shall consist of applying a load equivalent to 75 percent of notch fracture strength for 200 hours.

Dilute:

Specimens: *Type 1a, Cadmium plated per Treatment B of ASTM F 519*

Specimen #1: No failure within 200 hours.
Specimen #2: No failure within 200 hours.
Specimen #3: No failure within 200 hours.
Specimen #4: No failure within 200 hours.

Specimens: Type 1a, IVD Aluminum plated per MIL-DTL-83488, Cl 2, Ty II.

Specimen #1: No failure within 200 hours.
Specimen #2: No failure within 200 hours.
Specimen #3: No failure within 200 hours.
Specimen #4: No failure within 200 hours.

Result Conforms

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3.5.7 Stability

3.5.7.1 Hard water stability: When tested at the manufacturer's recommended concentration and as specified in 4.5.5, the cleaning compound shall not cause any corrosion of SAE-AMS-A-250/4 aluminum in excess of that allowed in table I.
Temperature: 160^{0}F
Dilute:

Test Panel Material	Former Designation	Allowable weight change (mg / cm^2 / 24 hours)	**Results**
Aluminum (SAE-AMS-A-250/4)	Alloy 2024; QQ-A-250/4-T3	0.04	**0.01**

No visible corrosion

Result Conforms

3.5.7.2 Storage stability: When tested as specified in 4.5.6, and after a 12 month storage period, the type I cleaning compound shall not exhibit any separation, crystallization, or other deterioration of the cleaning compound or container. The type II cleaning compound shall not exhibit any deterioration of the cleaning compound or container. Stored cleaning compounds shall not fail the total immersion corrosion (3.5.6.2) or cleaning efficiency (3.5.8) requirements. For cleaning efficiency, only the MIL-G-21164 soil shall be tested.

Requires 12 months of storage and subsequent re-testing.

Result Due June 2006

3.5.7.3 Accelerated storage stability: After being tested for accelerated storage as specified in 4.5.7, the test sample shall show no marked change in color or uniformity when compared to the control and shall meet the cleaning efficiency requirement for the MIL-G-21164 soil specified in 3.5.8

Dilute:
After 6 cycles: ***No marked change in color or uniformity***
Cleaning Efficiency: MIL-G-21164: > 99%
Cleaning Efficiency: Alox 2028: > 99%

Result Conforms

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3.5.8 Cleaning Efficiency: The cleaning compound shall remove not less than 80 percent of unbaked grease in accordance with MIL-G-21164 and not less than 95 percent of baked Alox 2028, when tested at the manufacturer's recommended concentration as specified in 4.5.8.

Dilute:

Cleaning Efficiency: MIL-G-21164: > 99%
Cleaning Efficiency: Alox 2028: > 99%

Result Conforms

3.5.9 Oil separation: The oil layer shall be not less than 9 and be not greater than 13 milliliters, when tested as specified in 4.5.9.

Dilute:

Oil Layer: 10 mls

Result Conforms

3.5.10 Workmanship: When examined visually at room temperature, the type I cleaning compound shall be a homogeneous liquid free of foreign matter. A faint turbidity shall not be cause for rejection. When examined visually at room temperature, the type II cleaning compound shall be free flowing, lump free, and free from foreign materials. Upon mixing, the cleaner shall form a liquid with no solid sediment.

Dilute:

Homogeneous liquid, free of foreign matter.

Result Conforms

3.5.11 Service Evaluation: Upon completion of all other tests herein, with the exception of storage stability (see 3.5.7.2), the qualifying activity may request a full evaluation of the cleaning compounds by an aircraft depot maintenance facility (Navy, Air Force, Army, or commercial) in accordance with 4.5.10. The cleaning compounds performance shall be equal to or better than an existing qualified product chosen by the maintenance facility.

Not performed by SMI, Inc.

Result Not performed

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Date: 28-Oct-2005

SMI REF: 05JUN576

PRODUCT: **HURRISAFE 9065 DEGREASER**
(received 03-Jun-2005)

40 CFR 796.3100: AEROBIC AQUATIC BIODEGRADATION
Code of Federal Regulations
Environmental Protection Agency
Title 40: Protection of Environment
Part 796: Chemical Fate Testing Guidelines
Shake Flask Method

Summary of Results:

Based on dissolved organic carbon analysis:

"HURRISAFE 9065 DEGREASER" = 90.7 % Biodegradable in 28 days

See Appendix A for graphical representation of Biodegradability vs. Time .

PROCEDURE

I. Introduction

This procedure provides a way to determine the rate and extent of aerobic biodegradation that might occur when chemical substances are released to aquatic environments. A high biodegradability result in this test provides evidence that the test substance will be biodegradable in natural aerobic freshwater environments. A low biodegradability result may not necessarily indicate poor biodegradation, as other factors may interfere, such as inhibition of the microbial inoculum by the test material.

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II. Principle of the Test Method

The method consists of a 2-week inoculum buildup period during which the microbes are allowed to adapt to the test compound. The acclimated media containing a defined amount of test compound is added to specially equipped Erlenmeyer flasks. The test media is sampled periodically and analyzed for dissolved organic carbon (DOC). A reservoir filled with barium hydroxide is utilized to measure the amount of carbon dioxide evolved. The degree of biodegradation is determined by comparison of the extent of DOC disappearance and the amount of carbon dioxide liberated. Control flasks containing no test compounds are run simultaneously and are used to estimate the degree of ultimate biodegradation. Reference substances which will exhibit ultimate biodegradation may be run simultaneously to check the activity of the inoculum. If the reference samples do not exhibit at least 60 percent of theoretical maximum carbon dioxide, and at least 70 percent DOC removal within 28 days, the test will be regarded as invalid and shall be repeated using different inoculum.

This method is believed to be appropriate for a screening test which has solely an acceptance but no rejective function.

III. Test Procedure

The total organic carbon (TOC) of the test compound is first determined by analysis or calculation if the formulation is known. Determination of the minimum inhibitory concentration is useful to insure that the test compound will not be inhibitory to the microbes at the required concentration. The shake flask apparatus is assembled utilizing a 2-liter Erlenmeyer flask and a 50 ml centrifuge tube. The tube containing 10 mls of barium hydroxide will be suspended over the contents of the flask in such a way that liberated carbon dioxide may diffuse into the barium hydroxide, while allowing the contents of the tube to be removed for analysis without spilling into the test media. Glass tubing may be utilized as access into the flask for sparging, venting, and sampling.

Stock solutions I, II, and III are prepared (see Appendix B), along with 0.2 N barium hydroxide and 0.1 N HCl. Acclimation medium is prepared by adding 1 ml each of stock solutions I, II and III to 1 liter of distilled, deionized water (DIW). The microbial inoculum is obtained from sewage and soil or from Polyseed and is added to the acclimation medium. Test compounds are added incrementally during the acclimation period at concentrations equivalent to 4, 8, and 8 mg/L carbon on days 0, 7, and 11, respectively. On day 14, the medium is ready for use in the test.

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Biodegradability test flasks are prepared by adding 100 mls of acclimation medium to 900 mls of DIW along with 1 ml each of solutions I, II, and III to the 2-liter Erlenmeyers. Additional test compound equivalent to 10 mg/L carbon is added to the flasks. Ten mls of barium hydroxide are added to the suspended reservoirs in each flask and 10 mls are also saved for use as a titration blank. Flasks are sparged with carbon dioxide-free air, sealed and placed on a shaking table (approx. 125 rpm) at 20 - 25 deg C in the dark. Test flasks should be run in triplicate and sampling should occur at time zero and at least four other times to allow for a smooth plot of biodegradation. Each sample for DOC analysis is first centrifuged or filtered through a 0.45 micrometer or smaller pore diameter. On the day prior to terminating the test, 3 mls of 20 percent sulfuric acid are added to release carbonate bound carbon dioxide.

IV. ANALYTICAL MEASUREMENTS

The quantity of carbon dioxide evolved is measured by titration of the entire barium hydroxide sample with 0.1 N HCl to the phenolphthalein end point, blank subtracted. Theoretically, 10 mg of carbon is converted to 0.833 mmol of carbon dioxide. Absorbed carbon dioxide precipitates as barium carbonate, causing a reduction in alkalinity by the equivalent of 16.67 ml of 0.1 N HCl for complete conversion of the test compound carbon to carbon dioxide. Therefore, the percent theoretical carbon dioxide evolved from the test compound is calculated at any sampling time from the formula:

$$\% CO_2 \text{ evolution} = [(TF - CF)/16.67] \cdot 100$$

where:

TF = mls of 0.1 N HCl used in titration of test flask

CF = mls of 0.1 N HCl used in titration of control flask

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The DOC analysis is performed using a suitable organic carbon method. The percent DOC disappearance from the test compound is calculated from the formula:

$$\% \text{ DOC removal} = [1 - (DTF_x - DCF_x)/(DTF_o - DCF_o)] \cdot 100$$

where:

DTF = Dissolved organic carbon from test flask
DCF = Dissolved organic carbon from control flask

o = Day zero measurements
x = Day x measurements

V. REPORT OF RESULTS

Inoculum: Polyseed and Mixed inoculum

Source: Fisher Scientific and Metro-Dade County Water & Sewer Authority

Storage: Ambient temperature, used within 24 hours

Minimum Inhibitory Concentration: MIC < 3.125 % (non-inhibitory to microbes at concentrations lower than 3.125%)

Percent Biodegradation based on DOC analysis:
HURRISAFE 9065 DEGREASER: 90.7 % after 28 days (see Table 1)
Reference (Sodium citrate): 92.3 % after 28 days (see Table 1)

Percent Biodegradation based on carbon dioxide evolution:
HURRISAFE 9065 DEGREASER: 40.4 % after 28 days (see Table 2)
Reference (Sodium citrate): 43.3 % after 28 days (see Table 2)

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Summary: Since the test compound was found to be over 70 % biodegradable based on the DOC analysis, it is reasonable to assume that the substance will undergo rapid and ultimate biodegradation in aerobic aquatic environments, also known as "ready biodegradability". The test is validated by the fact that the reference compound, sodium citrate, exhibited a biodegradability over 70%.

The percent biodegradability based on carbon dioxide evolution is typically lower than that of the DOC based numbers. In this case, the carbon dioxide evolution measured was significant, both on the test compound and on the reference, and the results generally agree.

Respectfully submitted,

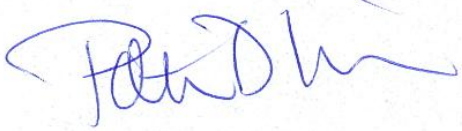

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TABLE I - DISSOLVED ORGANIC CARBON (DOC) VALUES

Sample: **HURRISAFE 9065**

		DAY 0	DAY 7	DAY 14	DAY 21	DAY 28
	A	30.3	8.1	7.2	6.2	6.1
	B	31.2	10.7	6.1	6.5	6.3
	C	31.6	7.4	5.9	5.7	5.8
AVERAGE		31.0	8.7	6.4	6.1	6.1
CORRECTED AV		27.3	5.1	3.1	2.6	2.5
% BIODEGRADED		**N/A**	**81.3%**	**88.8%**	**90.6%**	**90.7%**

Reference: Sodium Citrate

	A	35.2	9.8	5.7	5.5	5.5
	B	36.8	8.2	6.8	6.5	6.4
	C	37.5	7.8	7.5	6.3	6.3
AVERAGE		36.5	8.6	6.7	6.1	6.1
CORRECTED AV		32.8	5.0	3.3	2.5	2.5
% BIODEGRADED		N/A	84.9%	89.8%	92.3%	92.3%

BLANK	A	3.7	4.0	3.2	3.9	3.5
	B	3.6	3.2	3.1	3.1	3.4
	C	3.8	3.7	3.7	3.7	3.7
AVERAGE		3.7	3.6	3.3	3.6	3.5

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Table II - Titration Data for CO2 Evolution

Sample: **HURRISAFE 9065**

		DAY 7	DAY 14	DAY 21	DAY 28	
	A	6.2	8.8	17.0	17.8	
	B	7.4	10.4	16.8	18.0	
	C	9.0	12.6	16.6	18.0	
AVERAGE		7.5	10.6	16.8	17.9	
CORRECTED AVG		10.3	7.1	1.1	0.0	
% BIODEGRADED		22.6%	15.5%	2.3%	0.0%	
mls theoretical:	45.5				**TOTAL=**	**40.4%**

Reference: Sodium Citrate

	A	5.2	7.2	16.8	17.8	
	B	4.8	7.6	15.6	18.0	
	C	4.2	10.8	17.0	17.8	
AVERAGE		4.7	8.5	16.5	17.9	
CORRECTED AVG		13.1	9.1	1.4	0.1	
% BIODEGRADED		23.9%	16.7%	2.6%	0.1%	
mls theoretical:	54.7				TOTAL =	43.3%

BLANK	A	17.8	17.4	17.6	17.8	
	B	18.0	17.6	18.2	17.8	
	C	17.6	18.0	17.8	18.2	
AVERAGE		17.8	17.7	17.9	17.9	

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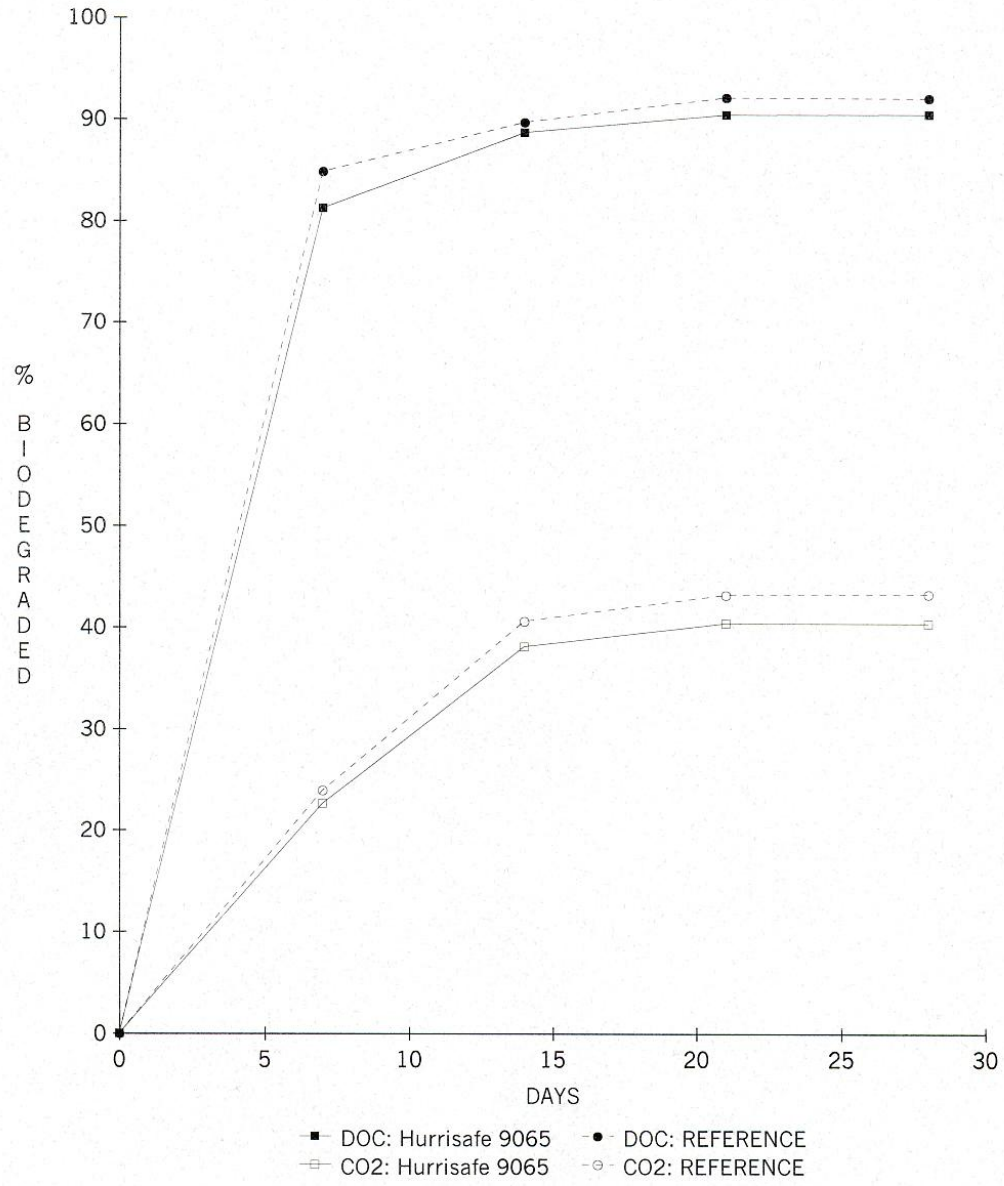
Appendix A

BIODEGRADABILITY VS. TIME

HURRISAFE 9065



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Appendix B

STOCK SOLUTIONS I, II, AND III

SOLUTION I:	35	g/L	NH_4Cl
	15	g/L	KNO_3
	75	g/L	$K_2HPO_4 \cdot 3H_2O$
SOLUTION II:	25	g/L	$NaH_2PO_4 \cdot H_2O$
	10	g/L	KCl
	20	g/L	$MgSO_4$
	1	g/L	$FeSO_4 \cdot 7H_2O$
	adjust pH of Soln II to 3.0		
SOLUTION III:	5	g/L	$CaCl_2$
	0.05	g/L	$ZnCl_2$
	0.5	g/L	$MnCl_2 \cdot 4H_20$
	0.05	g/L	$CuCl_2$
	0.001	g/L	$CoCl_2$
	0.001	g/L	H_3BO_3
	0.0004	g/L	MoO_3

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Date: 15-Jun-2006

SMI/REF: 05JUN576$_{SS}$
Originally tested in Jun 2005.

Product: **HURRISAFE 9065 DEGREASER** *(received 03-Jun-2005)*
Container: two-gallons round clear plastic
Dilution: Per specification

STORAGE STABILITY TESTING in accordance with:
MIL-PRF-29602A (31 Jan 2005)
CLEANING COMPOUNDS, PARTS WASHER AND SPRAY CABINET
(Initial Qualification Test Report dated 28-Oct-2005)

3.5.7.2 *Long Term Storage Stability: After being stored for a period of 12 months, in accordance with 4.5.6, the Type I cleaning compound shall not exhibit any separation, crystallization, or other deterioration of the cleaning compound or container. The Type II cleaning compound shall not exhibit any deterioration of the cleaning compound or container. Stored cleaning compounds shall not fail the total immersion corrosion (3.5.6.2) or cleaning efficiency (3.5.8) requirements. For cleaning efficiency, only the MIL-G-21164 soil shall be tested.*

Product stored in plastic: No separation, crystallization or deterioration.
Plastic container: No leakage, cracking, crazing or softening.
Results of testing: See below.

Result *Conforms*

3.5.6	Corrosivity	
	3.5.6.2 Total immersion corrosion	Conforms
3.5.8	Cleaning Efficiency	Conforms

Respectfully submitted,

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Client: PCI of America
Product: **HURRISAFE 9065 DEGREASER**
Dilution: Per specification
MIL-PRF-29602A Storage Stability

Date: 15-Jun-2006
SMI/REF: 05JUN576$_{SS}$

3.5.6.2 Total immersion corrosion: The cleaning compounds shall cause neither visual corrosion nor a weight change of any specimen greater than that shown in Table I, when tested at the manufacturer's recommended concentration and in accordance with 4.5.3

Table I Total Immersion Corrosion Weight Changes

Alloy	Weight Loss (mg/cm^2/24hrs)	
	Max. allowed	Dilute
Aluminum (SAE-AMS-A-250/4)	0.04	**0.01**
Aluminum, SAE AMS-A-250/4, anodized per MIL-A-8625, type I	0.04	**+0.02**

No visible corrosion on any of the panels; compound did not layer or separate for the duration of the test.

Result Conforms

3.5.8 Cleaning Efficiency: The cleaning compound shall remove not less that 80 percent of unbaked grease in accordance with MIL-G-21164, when tested at the manufacturer's recommended concentration as specified in 4.5.8

Cleaning Efficiency: 99.1 %

Result Conforms

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