CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016

DateRun: 01/03/2016

Experimenters: Alicia Melvin, Luis Raudales

ClientType: Cleaner Manufacturer

ProjectNumber: Project #2

Substrates: Ceramics, Plastic, Stainless Steel

PartType: Coupon

Contaminants: Films, Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: To evaluate supplied products for Bathroom Soil SSL-1 removal from various surfaces.

Experimental Procedure: The two cleaning products were used at the requested dilutions, 1:128 for PC-120 and RTU for Lav Safe, both at room temperature (68˚F) during the test. Nine pre-weighed coupons per cleaner (three Ceramic, three Plastic and three Stainless steel) were coated with one gram of Bathroom Soil SSL-1 at room temperature using a handheld swab. The contaminated coupons were air dried for 24 hours at room temperature and weighed again to determine the amount of soil added the next day.

The three coupons of each substrate were placed in the SLW equipment, and a KC Wypal reinforced paper towel was attached to the cleaning sled and soaked with two sprays of cleaning solution. Each coupon was sprayed twice with the same cleaning solution. The cleaning unit was run for 20 cycles (30 sec). At the end of the cleaning cycle, the coupons were wiped once with a dry paper towel. Coupons dried overnight and final weights were recorded. Efficiencies were calculated and recorded.

Results: After 30 seconds of testing on the SLW equipment, PC 120 was less effective at removing soil from Polycarbonate Substrates. Lav Safe was less effective at removing soil from Stainless Steel. PC 120 had very close removal rates for all of the substrates while Lav Safe was very effective on Polycarbonate substrates. Overall, Lav Safe was more effective as a cleaner than PC 120.

Cleaner	Substrates	Initial	Final	% Removed	% Substrate Ave	% Overall
PC 120	Ceramic	0.3756	0.1079	71.27	83.09	84.21
		0.4052	0.0506	87.51		
		0.3129	0.0297	90.51		
	Polycarbonate	0.3052	0.0848	72.21	82.95	
		0.3395	0.0429	87.36		
		0.3814	0.0408	89.30		
	Stainless Steel	0.2792	0.1224	99.52	86.58	
		0.4407	0.0356	86.67		
		0.2916	0.1817	73.56		
Lav Safe	Ceramic	0.3419	0.0122	96.43	87.08	85.54
		0.3021	0.0308	89.40		
		0.2934	0.0733	75.02		
	Polycarbonate	0.3354	0.0115	96.57	96.36	
		0.3776	0.0110	98.09		
		0.3386	0.0155	95.42		
	Stainless Steel	0.3487	0.0907	59.80	73.20	
		0.3077	0.0943	82.63		
		0.3334	0.0221	77.18		

Summary:

Substrates:	Ceramics, Plastic, Stainless Steel				
Contaminants:	Films, Soaps				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Next-Gen Supply Group	PC 120 Peroxide Mulitsurface Cleaner	1.5	84.21	☑	

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	Next-Gen Supply Group	LAV Safe 8	100	85.54	☑	

Conclusion: At the end of the cycle (30 sec), the PC-120 could only effectively remove 86.58% of the Bathroom Soil SSL-1from Stainless Steel. Lav Safe was able to effectively remove 87.08% of Bathroom Soil SSL-1 from Ceramic and 96.36% from Polycarbonate.