CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2017

DateRun: 12/19/2017

Experimenters: Alicia McCarthy, Hayley Byra

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Vinyl Composite Tiles

PartType: Coupon

Contaminants: Greases, Oil, Food

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Light Meter

Purpose:

Experimental Procedure: A Spectro Guide Gloss-Color meter from BYK Gardner was used to measure baseline gloss readings from six preweighed coupons, three per cleaner before soiling with one gram of DCC-17 soil (33% vegetable shortening, 33% lard, 33% vegetable oil, 1% carbon lampblack) using a swab. Coupons air dried at room temperature (68 F) for 24 hours before recording dirty gloss readings and weight. A sponge, provided by EcoEgg, was used to manually clean with both the supplied and comparative product. The sponge was saturated once with deionized water before rubbing it into the EcoEgg hard surface cleaner in a circular motion for five seconds. Coupons were cleaned one at a time for 30 seconds in a circular motion with a reapplication of the cleaner between each coupon. A dime sized drop of the comparative product was applied directly to the coupons one at a time and cleaned with a wet sponge for 30 sections in a circular motion. The coupons were dried by wiping once with a microfiber towel before taking clean gloss readings and final weights.

Results: L-Values

Cleaner	Initial L	Dirty L	Final L	% DET	% AVG DET
Hard Surface Cleaner Citrus Burst	92.29	26.59	77.97	78.20	90.14
	85.72	20.49	82.78	95.49	
	81.82	18.68	79.75	96.72	
Soft Scrub	91.72	15.77	82.72	88.15	93.48
	90.61	29.08	85.82	92.22	
	88.01	23.93	88.06	100.08	

Gravimetric

Cleaner	Initial wt of cont.	Final wt of cont.	%Cont. Removed	% Average
Hard Surface Cleaner Citrus Burst	1.0077	0.0480	95.24	96.08
	1.1006	0.0305	97.23	
	1.0454	0.0441	95.78	
Soft Scrub	0.6776	0.0415	93.88	92.09
	1.1712	0.1366	88.34	
	1.0893	0.0647	94.06	

Summary:

Substrates:	Vinyl Composite Tiles				
Contaminants:	Greases, Oil, Food				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Eco Egg	Hard Surface Cleaner Citrus	100	96.08	☑	
Dial Professional	Soft Scrub Lemon	100	92.09	☑	

Conclusion: EcoEgg’s Hard Surface Cleaner Citrus Burst is as effective as the comparative cleaning product at removing DCC-17 from painted vinyl.