CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 08/17/2021

Experimenters: Ross Goding, Edward Judge, Anjali Bhagat

ClientType: Lab

ProjectNumber: Project #4

Substrates: Ceramics, Plastic, Painted metal

PartType: Coupon

Contaminants: Hucker's Soil

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test the effectiveness of Lysol Clean and Fresh in the removal of Hucker's Soil from various substrates.

Experimental Procedure: A Lysol Clean and Fresh solution was created by mixing 1 part Lysol with 5 parts water. Then, 3 coupons of each substrate (ceramic, plastic, painted metal) were collected and initial weights were taken. Hucker's Soil (Creamy Peanut Butter, Salted Butter, Wheat gluten, Egg Yolk, Evaporated milk, DI water, Printer's ink with boiled linseed oil, India Ink, Saline Solution) was applied to each coupon and allowed to air dry for 2 hours. After the 2 hour dry time, the weights of the newly contaminated coupons were measured. All coupons were placed into a Gardner-scrub Abrasion Tester machine. Wypall cleaning cloths were attached to each of the 3 cleaning blocks used for the test. Each Wypall cloth and all coupons received 2 sprays of the Lysol Clean and Fresh solution and the Gardner-scrub Abrasion Tester was run for 20 repetitions, simulating 20 manual wipes. Once cleaning concluded, the cleaned coupons were allowed to air dry for 24 hours. After 24 hours, the weights of the cleaned coupons were measured.

Results:

Cleaner	Substrate	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG	% Overall
Lysol Clean and Fresh	Ceramic	0.2368	0.0064	97.30	94.33	93.98
		0.2843	0.0116	95.92		
		0.2409	0.0100	95.85		
	Plastic	0.3035	0.0356	88.27	90.76	
		0.4519	0.0319	92.94		
		0.3486	0.0311	91.08		
	Painted Metal	0.3578	0.0115	96.79	96.83	
		0.4307	0.0128	97.03		
		0.3951	0.0131	96.68		

Summary:

Substrates:	Ceramics, Plastic, Painted metal				
Contaminants:	Hucker's Soil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Reckitt Benckiser	Lysol Clean and Fresh	100%	93.98	☑	Lysol Clean and Fresh was effective in the removal of Hucker's Soil from various substrates.

Conclusion: Lysol Clean and Fresh was successful in the removal of Hucker's Soil from ceramic, plastic, and painted metal substrates.