CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 07/11/2021

Experimenters: Ross Goding, Edward Judge

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 determine the effectiveness of Lysol All purpose Cleaner in the removal of Hucker's Soil from various substrates

Experimental Procedure: A Lysol All Purpose Cleaner solution was gathered to begin testing. 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 All Purpose Cleaner 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 All Purpose Cleaner	Ceramic	0.1679	0.0054	96.78	87.10	77.54
		0.1140	0.0067	94.12		
		0.1302	0.0499	61.67		
	Plastic	0.3883	0.0162	95.83	73.62	
		0.4735	0.0293	93.81		
		0.3683	0.2533	31.22		
	Painted Metal	0.2300	0.0099	95.69	71.90	
		0.3207	0.0094	97.07		
		0.3234	0.2492	22.94		

Summary:

Substrates:	Ceramics, Plastic, Painted metal				
Contaminants:	Hucker's Soil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Reckitt Benckiser	Lysol All-Purpose Cleaner	100%	77.54	☐	Lysol All-Purpose Cleaner was not effective in the removal of Hucker's Soil from various substrates.

Conclusion: Lysol All Purpose was only 77.5% effective in removing Hucker's Soil from ceramic, plastic, and painted metal substrates.