CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 06/08/2021

Experimenters: Ross Goding, Edward Judge

ClientType: Lab

ProjectNumber: Project #4

Substrates: Ceramics, Plastic, Chrome

PartType: Coupon

Contaminants: Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test the effectiveness of Pine Sol Multi-Surface Cleaner in the removal of Bathroom Soil from various substrates

Experimental Procedure: A Pine Sol Multi-Surface Cleaner solution was created by mixing 1 part solution with 64 parts water. Then, 3 coupons of each substrate (ceramic, chrome, plastic) were collected and initial weights were taken. Bathroom Soil was applied to each coupon and allowed to air dry for 24 hours. After the 24 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 Pine Sol Multi-Surface 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
Pine Sol Multi-Surface Cleaner	Ceramic	0.0889	0.0085	90.44	81.31	87.64
		0.1334	0.0132	90.10		
		0.1067	0.0564	47.14		
	Chrome	0.1311	0.0032	97.56	91.73	
		0.0750	0.0087	88.40		
		0.0724	0.0078	89.22		
	Plastic	0.0596	0.0077	87.08	89.89	
		0.0833	0.0087	89.56		
		0.0791	0.0055	93.05		

Summary:

Substrates:	Ceramics, Plastic, Chrome
Contaminants:	Soaps

Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Clorox Company	Pine Sol	1/64	87.64	☑	Pine Sol was effective in the removal of Bathroom Soil from various substrates.

Conclusion: Pine Sol Multi-Surface Cleaner was effective in removing Bathroom Soil from ceramic, chrome, and plastic substrates.