CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 07/18/2021

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 Gain Dishwashing in the removal of Bathroom Soil from various substrates.

Experimental Procedure: A Gain Dishwashing solution was created by mixing 1 part Gain and 2 parts water. Then, 3 coupons of each substrate (ceramic, plastic, chrome) 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 Gain Dishwashing 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
Gain Dishwashing	Ceramic	0.1162	0.0230	80.21	64.76	62.67
		0.1126	0.0366	67.50		
		0.1534	0.1219	20.53		
	Plastic	0.1917	0.0176	90.82	66.86	
		0.1665	0.0217	86.97		
		0.2330	0.1799	22.79		
	Chrome	0.2649	0.0634	76.07	56.38	
		0.2253	0.0655	70.93		
		0.2347	0.1827	22.16		

Summary:

Substrates:	Ceramics, Plastic, Chrome				
Contaminants:	Soaps				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Korex Canada	Gain Formula (revised 15-359)	1/3	62.67	☐	Gain Dishwashing was not effective in the removal of Bathroom Soil from various substrates.

Conclusion: Gain Dishwashing showed little success in the removal of Bathroom Soil from ceramic, plastic, and chrome substrates.