CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 07/31/2003

Experimenters: Jason Marshall, Heidi Wilcox

ClientType: State Agency

ProjectNumber: Project #2

Substrates: Ceramics, Fiberglass, Chrome

PartType: Coupon

Contaminants: Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: To reevaluate selected cleaners for bathroom cleaning at vendor recommended dilution ratios

Experimental Procedure: Two supplied cleaning products were diluted to vendor recommended concentration for bathroom cleaning. The products were diluted with DI water. Six preweighed fiberglass, six ceramic and six chrome coupons were coated with SSL Soil 1 (Bathroom soap scum: Vaseline Dry Skin Lotion 21.4%, Dial Clean Rinsing Body Wash 14.3%, Market Basket Shampoo & Conditioner (Pert) 28.6%, Soft Soap Natural Liquid hand soap 21.4%, Coast Deodorant bar soap 7.2% and Water 7.1%) using a hand held swab and allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added.

Three coupons were placed into a Gardner Straight Line Washability unit. A Professional Painter's Rag was attached to the cleaning sled and soaked with 5-7 sprays of cleaning solutions. Each coupon was sprayed 7-10 times with the same cleaning solution. The cleaning unit was run for 20 cycles (~33 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded. Efficiencies were calculated and recorded.
Product Dilution Ratio
Ramsey Free Fall 64:1
MD Steston LavSafe 64:1

Results: The cleaning solutions had little difficulty with SSL Soil 1 on all three substrates. The table below lists the amount of soil added and removed.

Table 1. Soil Removal

Cleaner	Initial wt	Final wt	% Removed
RamseyFG	0.1563	0.0023	98.53
	0.2529	0.0020	99.21
	0.1175	-0.0009	100.77
RamseyCeramic	0.1689	0.0110	93.49
	0.1698	0.0167	90.16
	0.1491	0.0149	90.01
RamseyChrome	0.1364	0.0049	96.41
	0.1761	0.0021	98.81
	0.1803	0.0009	99.50
MDFG	0.2250	0.0006	99.73
	0.2985	0.0295	90.12
	0.5369	0.0108	97.99
MDCeramic	0.1510	0.0148	90.20
	0.1201	0.0235	80.43
	0.2934	0.0337	88.51
MDChrome	0.2905	0.0054	98.14
	0.1554	0.0032	97.94
	0.1704	0.0032	98.12

Summary:

Substrates:	Ceramics, Fiberglass, Chrome				
Contaminants:	Soaps				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Ramsey Company	Free Fall	2	96.32	☑	Fiberglass - 99.5, Ceramic - 91.22, Chrome - 98.24

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	Next-Gen Supply Group	LAV Safe 8	2	93.47	☑	Fiberglass - 95.95, Ceramic - 86.38, Chrome - 98.07

Conclusion: Both products were successful at the listed dilution ratios for SSL Soil 1.