CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2009

DateRun: 10/26/2009

Experimenters: Jason Marshall, Junhee Cho, Scott Nadolna

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Ceramics, Fiberglass, Chrome

PartType: Coupon

Contaminants: Films, Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: To evaluate reformulated product for bathroom cleaning following GS 37 guidelines.

Experimental Procedure: The supplied cleaning product was used at the requested concentration (5%) and a second product, selected by the lab, was used at the vendor supplied dilution for bathroom cleaning.

Preweighed chrome coupons were coated with SSL Soil 1 (Bathroom soap scum: All-in-one shampoo and conditioner 28.6%, Dry skin lotion 21.4%, Liquid hand soap 21.4%, Liquid body wash 14.3%, Deodorant bar soap 7.2% and water 7.1%.) using a handheld 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 Kimberly Clark Reinforced paper towel 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 solution was allowed to penetrate for 30 seconds followed by cleaning in the SLW unit 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.

Results: Super H2O2 cleaning product nearly 90% of the bathroom soil on average from all three substrates using manual wiping application. The table lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
Super H2O2 Ceramic	0.3980	0.0934	76.53
	0.5238	0.1162	77.82
	0.1336	0.0053	96.03
Super H2O2 Fiberglass	0.1273	0.0051	95.99
	0.2691	0.0069	97.44
	0.2615	0.0098	96.25
Super H2O2 Chrome	0.2384	0.0088	96.31
	0.0587	0.0179	69.51
	0.0895	0.0079	91.17
Comet Bathroom Ceramic	0.2686	0.1997	25.65
	0.2325	0.0844	63.70
	0.2822	0.1265	55.17
Comet Bathroom Fiberglass	0.1652	0.0107	93.52
	0.1639	0.0345	78.95
	0.2500	0.0168	93.28
Comet Bathroom Chrome	0.0529	0.0152	71.27
	0.1550	0.0146	90.58
	0.0695	0.0179	74.24

Summary:

Substrates:	Ceramics, Fiberglass, Chrome				
Contaminants:	Films, Soaps				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**

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Cleanline Products	H2O2 Super Citrus Concentrate	5	88.56	☑	
Prestige Brands Inc	Comet Bathroom Cleaner	100	71.82	☐	

Conclusion: The supplied product did have an overall average efficiency greater than 85% and would be considered effective based on the SSL testing methodology for bathroom cleaning.