CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008
DateRun:	12/02/2008
Experimenters:	Jason Marshall
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #1
Substrates:	Ceramics, Fiberglass, Chrome
PartType:	Coupon
Contaminants:	Films, Soaps
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric
Purpose:	To reevaluate supplied cleaner at requested concentration for GS 37 bathroom soil.

Experimental Procedure:

The supplied cleaning product was used at the requested concentration (5%) 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 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 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:

The new dilution of the Super H2O2 cleaning product removed over 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
Ceramic	0.0989	0.0034	96.56
	0.1749	0.0333	80.96
	0.1017	0.0190	81.32
Chrome	0.1067	0.0119	88.85
	0.0467	0.0039	91.65
	0.0649	0.0018	97.23
Fiberglass	0.1473	0.0090	93.89
	0.0765	0.0071	90.72
	0.0766	0.0051	93.34

Summary:

Substrates:	Ceramics, Fiberglass, Chrome				
Contaminants:	Films, Soaps				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Cleanline Products	H2O2 Super Citrus Concentrate	5	90.50	☑	

Conclusion:

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