CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 07/15/2004

Experimenters: Jason Marshall

ClientType: Chemical Company

ProjectNumber: Project #1

Substrates: Glass/Quartz

PartType: Coupon

Contaminants: Films, Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Photography

Purpose: To evaluate supplied product on glass soap scum

Experimental Procedure: The supplied cleaning product was used at the supplied concentration. A second product, selected by the lab, was diluted with DI water to vendor recommended dilution (0.4%) for glass cleaning.

Six preweighed chrome coupons were coated with SSL Soil 2 (Glass soap scum: Water 51.5%, Hair gel 25.6%, Toothpaste 10.4%, Shaving cream 5.3%, Hair spray 3.7% and Spray deodorant 3.5%) 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. Photographs of the dirty coupons were taken.

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 solution was allowed to penetrate for 30 seconds followed by cleaning in the SLW unit for 5 cycles (~10 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded and cleaned coupons were photographed. Efficiencies were calculated and recorded.

Results: Both products were effective in removing the soil with a manual wiping action. The table lists the amount of soil initially added and the amount remaining after cleaning and the product efficiency for each coupon cleaned. Dirty and clean pictures are also provided below.

Cleaner	Initial wt	Final wt	% Removed
ion.a.Clean	0.0800	0.0055	93.12
	0.0997	0.0025	97.49
	0.0962	0.0013	98.65
Super H2O2	0.0717	0.0023	96.79
	0.0724	0.0040	94.48
	0.0945	0.0026	97.25

Summary:

Substrates:	Glass/Quartz				
Contaminants:	Films, Soaps				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Castle International	ion.a.Clean	100	96.42	☑	
Cleanline Products	H2O2 Super Citrus Concentrate	0	96.17	☑	

Conclusion: The two products will be tested on SSL Soil 4 General Purpose kitchen under similar conditions.