CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2020
DateRun:	02/18/2020
Experimenters:	Meet Patel
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #1
Substrates:	Glass/Quartz, Chrome
PartType:	Coupon
Contaminants:	Films, Soaps
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric, Visual
Purpose:	To evaluate the effectiveness of the Mrs. Meyers Clean Day Lavender Glass and Cleanyst Free & Clear Glass Cleaner Reform on the removal of SCL Soil 2 Glass cleaner
Experimental Procedure:	Twelve pre-weighed coupons, three of each substrate per cleaner, were contaminated with 0.5 grams of glass soil (Water 51.5%, Hair gel 25.6%, Toothpaste 10.4%, Shaving cream 5.3%, Hair spray 3.7%, Spray deodorant 3.5%) distributed onto each coupon. The dirty weights were recorded after the coupons had dried for 24 hours at room temperature (68 F). Two coupons of the same substrate were aligned into a Single Line Washing Unit (SLW) with The Wypall X60 attached to the cleaning sled. The Wypall X60 reinforced wipe along with the coupons were all sprayed three times with the cleaner and then allowed to soak for 30 seconds. Afterwards the Single Line Washing Unit (SLW) was activated and cleaned for 20 cycles. The clean coupons were all then allowed to dry for one hour at room temperature before the final weights were recorded. Visual observations were made by a panel of three for spotting and filming following the general guidelines set forth in the CSPA DCC 09A. Filming is best recognized as "haziness" or overall "milkiness", while streaking is best identified as dried droplets or "spotting", usually found strung together into thin white lines. Each coupon was evaluated separately for filming and streaking, (i.e., product residues without added soil), according to a scale of "1" to "7" where: Filming Streaking 7 = high filming 7 = high streaking poor (performance) 1 = no visible filming 1 = no visible streaking (excellent performance)

Results:

Cleaner	Substrate	Initial wt. of cont.	Final wt. cont.	% Cont. Removed	Average % of Content Removed	Overall Average % Content Removed
Mrs. Meyers Lavender Glass Cleaner	Glass	0.0946	0.0279	70.51	79.72	81.15
		0.0868	0.0182	79.03		
		0.0712	0.0074	89.61		
	Chrome	0.0829	0.0134	83.84	82.59	
		0.0852	0.0144	83.10		
		0.0850	0.0163	80.82		
Cleanyst Free & Clear Glass Cleaner	Glass	0.0818	0.0093	88.63	88.31	86.59
		0.0852	0.0063	92.61		
		0.0858	0.0140	83.68		
	Chrome	0.0878	0.0141	83.94	84.87	
		0.0850	0.0125	85.29		
		0.0814	0.0119	85.38		

Spotting and Filming Visual Final Averaged Results:

Cleaner	Substrate	Average Spot	Average Film
Mrs. Meyers Lavender Glass Cleaner	Glass	4.6	4.4
		4.7	4.2

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Cleanyst Free & Clear Glass Cleaner			
Mrs. Meyers Lavender Glass Cleaner	Chrome	3.9	5.5
Cleanyst Free & Clear Glass Cleaner		4.9	3.1

Summary:

Substrates:	Glass/Quartz, Chrome
Contaminants:	Films, Soaps

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Mrs Myers Clean Day	Mrs Meyers Lavender Tub and Tile	100	81.15	☐	streaking 4.3, filming 4.9
Cleanyst	Cleanyst Free and Clear Glass Cleaner	100	86.59	☑	streaking 4.8, filming 3.6

Conclusion:

Cleanyst Free & Clear Glass Cleaner more effective than Mrs. Meyers Lavender Glass Cleaner at removing glass soil from chrome and glass substrates. Cleanyst Free & Clear Glass Cleaner had overall less filming and only slightly more spotting than Mrs. Meyers Lavender Glass Cleaner.