CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016

DateRun: 02/16/2016

Experimenters: Russell Curtis, Alicia Melvin, Vinh Tran

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Ceramics, Plastic, White Board

PartType: Coupon

Contaminants: Greases, Oil, Food

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: To compare the efficiency of removing DCC-17 on multiple substrates using a supplied cleaning product sample and competitor sample.

Experimental Procedure: Nine coupons for each sample (three ceramic, three plastic, and three painted steel) were weighed for initial weights. Using a swab, coupons were then dirtied with 0.5 grams of DCC17 and air dried at 68˚F overnight. Dirty weights were then collected the next day. The cleaning samples were diluted to requested amounts, Ecolab Wall Glide 2/128 and Peroxi-det 10/128, and placed into the same brand lab testing spray bottles.

Three coupons were placed into a Gardner Straight Line Washability unit. A Wypall X60 reinforced wipe was attached to the cleaning sled and treated with two sprays of cleaning solution. Each coupon was treated with the same cleaning solution two times. The solution was allowed to penetrate for 30 seconds followed by cleaning in the SLW unit for 20 cycles (30 seconds of cleaning).

Coupons were placed back on the tray and then weighed for a final weight. If coupon's gravimetric final results were off, coupons were reweighed the next day to allow for air drying.

Results: Ecolab Wall Glide's performance on coupons was very similar per substrate. Peroxi-det, however, had a harder time removing DCC-17 from the Ceramic and plastic coupons. On painted steel, Peroxi-det was effective at removing the soil.

Cleaner	Substrate	Initial wt	Final wt.	% Removed	Average	Overall Ave
Ecolab Wall Glide Diluted 2/128						
	Ceramic	0.3384	0.0508	84.99	86.30	88.17
		0.5207	0.0864	83.41		
		0.6502	0.0617	90.51		
	Plastic	0.5375	0.0984	81.69	86.67	
		0.5070	0.0527	89.61		
		0.5254	0.0593	88.71		
	Painted	0.5307	0.0866	83.68	91.54	
		0.4811	0.0190	96.05		
		0.6266	0.0320	94.89		
Peroxi-det Diluted 10/128						
	Ceramic	0.4472	0.1500	66.46	66.86	73.53
		0.5355	0.2162	59.63		
		0.5099	0.1300	74.50		
	Plastic	0.4586	0.1482	67.68	69.18	
		0.5248	0.1362	74.05		
		0.4974	0.1700	65.82		
	Painted	0.4967	0.1317	73.49	84.54	
		0.4628	0.0445	90.38		
		0.4884	0.0500	89.76		

Summary:

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Substrates:	Ceramics, Plastic, White Board				
Contaminants:	Greases, Oil, Food				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
EcoLab	Wall Glide Plus (Diluted)	1.5	88.17	☑	
The Janitors Suppy Co. Inc	Peroxi-Det All Purpose Cleaner	7.8	73.52	☐	

Conclusion: Ecolab Wall Glide performed more effective overall (88.17%) on all substrates compared to Peroxi-det (73.52%).