CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008
DateRun:	02/02/2009
Experimenters:	Jason Marshall, Junhee Cho
ClientType:	Light Manufacturer
ProjectNumber:	Project #1
Substrates:	Plastic
PartType:	Coupon
Contaminants:	Carbon Deposits
Cleaning Methods:	Manual Wipe
Analytical Methods:	Visual
Purpose:	To evaluate second batch of cleaners for carbon black removal.
Experimental Procedure:	Fifteen products from the lab's inventory were selected based on client supplied information. All fifteen were sprayed onto pre-soiled coupons coated with carbon black. The cleaning product was then wiped with minimal agitation using a Kimberly Clark Wypall X60 reinforced wiper. Observations were made and products were ranked based on visual rankings. Three of the products also were used at 5% dilutions following the same procedure for the spray wipe cleaning.
Results:	Several of the selected cleaners were effective in removing the carbon black using manual wiping action on the plastic coupons. One of the diluted products was effective as well. The rankings are listed in the table below.

Product	Ranking	
Brazilian women's group Amazing	9	
Clorox Natural glass cleaner	2	
Clorox Natural glass and surface cleaner	8	
Seventh Generation natural glass surface cleaner	4	
Clean Environment company-Glass cleaner RTU	10	
Frammar Kernel clean	7	
Environmental Care & Share - Glass Mirror Answer	1	
SC Jonson company - WINDEX	6	
MD stetson - Winterclean	3	
Skilcraft-Glass cleaner	5	
Spartan - Glass cleaner	1	
MD stetson - natural glass cleaner 101	4	
1st Enviro-Safety - stay clean glass cleaner	3	
RMC- Enviro care Glass cleaner	2	
Innovative organic-Amberclean Q3	5	(current product)
Diluted Products at 5%	Diluted Rank	Overall Rank
RMC- Enviro care Glass cleaner	3	5
Spartan - Glass cleaner	1	1
MD stetson - natural glass cleaner 101	2	3

Summary:

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Substrates:	Plastic				
Contaminants:	Carbon Deposits				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Brazilian Womens Group	Maravilhoso Limpa Vidro	100		☐	
Clorox Company	Green Works Natural Glass Cleaner	100		☑	
Clorox Company	Green Works Glass and Surface Cleaner	100		☐	
Seventh Generation	Natural Glass and Surface Cleaner	100		☐	
The Clean Environment Co	Glass and Hard Surface Cleaner	100		☐	
Franmar Chemical	Kernel Clean glass cleaner	100		☐	
Environmental Care and Share	Glass and Window Answer	100		☑	
SC Johnson & Son Inc	Windex Glass & More Cleaner (Spray)	100		☐	
Next-Gen Supply Group	PC 117 Winterclean	100		☐	
Rochester Midland Corporation	EnviroCare Glass Cleaner	100		☑	
Rochester Midland Corporation	EnviroCare Glass Cleaner	100		☐	
Spartan Chemical Company	Biorenewables Glass Cleaner	100		☑	
Next-Gen Supply Group	PC 101 Neutral and Glass Cleaner	100		☐	
1st Envirosafety Inc. - No Longer Exists	Stay Cleaner Colloidal Glass Cleaner - For Comparison Purposes Only	100		☐	
Innovative Organics Inc	Amberclean Q3	100		☐	
Rochester Midland Corporation	EnviroCare Glass Cleaner	5		☐	
Spartan Chemical Company	Biorenewables Glass Cleaner	5		☐	
Next-Gen Supply Group	PC 101 Neutral and Glass Cleaner	5		☑	

Conclusion: The top cleaning products will be used to clean the supplied parts.