

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

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