CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008

DateRun: 08/10/2008

Experimenters: Jason Marshall, Shweta Bansal

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Glass/Quartz, Chrome

PartType: Coupon

Contaminants: Films, Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: To evaluate supplied product on glass cleaning following GS 8 and 37 guidelines.

Experimental Procedure: The supplied cleaning products was used at full strength and a second industry standard product was diluted to vendor recommended concentration for all purpose cleaning (3.125%).

Preweighed chrome and glass coupons were coated with SSL Soil 2 (Glass soap scum: Colgate Regular shaving cream 5.3%, Arid Extra Extra Spray Deodorant 3.5%, Suave Naturals Flexible Hold hair spray 3.7%, Aleeda Texurizing hair gel 25.6% Colgate Total toothpaste 10.4%, Water 51.5%) by pump spraying the mix. The soil was allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added.

Three coupons were placed into a Gardner Straight Line Washability unit. A Kimberly-Clark Wypal reinforced paper towel 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 cleaning unit was run for 5 cycles (~9 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded, efficiencies were calculated and recorded.

Results: The supplied product removed over 85% of the glass soap scum using manual wiping. All three products performed comparably to the selected industry standard product. The table lists the substrate cleaned, the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

Cleaner/Substrate

Cleaner	Initial wt	Final wt	% Removed
Glass & Window Answer glass	0.0971	0.0100	89.70
	0.0521	0.0043	91.75
	0.0867	0.0062	92.85
RMC Glass Cleaner Glass	0.0938	0.0084	91.04
	0.0730	0.0117	83.97
	0.0817	0.0080	90.21
Glass & Window Answer chrome	0.0785	0.0138	82.42
	0.0711	0.0159	77.64
	0.0535	0.0111	79.25
RMC Glass Cleaner Chrome	0.0634	0.0185	70.82
	0.0441	0.0080	81.86
	0.0945	0.0130	86.24

Summary:

Substrates:	Glass/Quartz, Chrome				
Contaminants:	Films, Soaps				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Environmental Care and Share	Glass and Window Answer	100	85.60	☑	
Rochester Midland Corporation	EnviroCare Glass Cleaner	3.125	84.02	☐	

Conclusion: The submitted product had an overall average efficiency greater than 85% and would be considered effective based on the SSL testing methodology.