CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008

DateRun: 11/06/2008

Experimenters: Jason Marshall

ClientType: Electro-Optical Devices

ProjectNumber: Project #1

Substrates: Glass/Quartz

PartType: Coupon

Contaminants: Adhesive

Cleaning Methods: Manual Wipe

Analytical Methods: Visual

Purpose: To evaluate products with better pH values for adhesive removal

Experimental Procedure: Eight products were selected from the laboratory's web database, www.cleanersolutions.org, based on supplied information from the client. Each product was used at full strength and room temperature.

Glass coupons were contaminated with a strip of the supplied adhesive tape. coupons were then cleaned with each solution. Cleaning was performed by soaking a WypAll X60 reinforced paper towel with the cleaning solution. The coupons were then manually wiped for up to 2 minutes. Visual observations were made and recorded during cleaning.

Results: Five of the eight products removed the adhesive within 1 minute of the manual wiping. The table lists the amount of time required to remove the adhesive from the glass surface.

Product	Time
Free & Clear	36 seconds
Scout Glass & Surface	37 seconds - foamy, could be diluted
Kernel Clean	45 seconds
Clean Environment Glass	57 seconds
Biorenewable Glass	79 seconds - foamy
SC More Than Glass	22 seconds
EnviroCare Glass	71 seconds - foamy, could be diluted
Smart Solve 605	Over 2 minutes

Summary:

Substrates:	Glass/Quartz
Contaminants:	Adhesive

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Seventh Generation	Natural Glass and Surface Cleaner	100	0.00	☑	
Scout Systems	Scout Glass & Surface Cleaner	100	0.00	☑	
Franmar Chemical	Kernel Clean glass cleaner	100	0.00	☑	
The Clean Environment Co	Glass and Hard Surface Cleaner	100	0.00	☑	
Spartan Chemical Company	Biorenewables Glass Cleaner	100	0.00	☐	
Gemtek Products	SC More Than Glass Cleaner	100	0.00	☑	
Rochester Midland Corporation	EnviroCare Glass Cleaner	100	0.00	☐	
United Laboratories International	Smart Solve 605	100	0.00	☐	

Conclusion: The five products with the shortest required cleaning times will be evaluated on the EVA film.