

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2020

DateRun: 02/19/2020

Experimenters: Meet Patel

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Glass/Quartz, Chrome

PartType: Coupon

Contaminants: Films, Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To evaluate the effectiveness of the Mrs. Meyers Clean Day Lavender Glass and Cleanyst Free & Clear Glass Cleaner Reform on the removal of SCL Soil 2 Glass cleaner

Experimental Procedure: Twelve pre-weighed coupons, three of each substrate per cleaner, were contaminated with 0.5 grams of glass soil (Water 51.5%, Hair gel 25.6%, Toothpaste 10.4%, Shaving cream 5.3%, Hair spray 3.7%, Spray deodorant 3.5%) distributed onto each coupon. The dirty weights were recorded after the coupons had dried for 24 hours at room temperature (68 F). Two coupons of the same substrate were aligned into a Single Line Washing Unit (SLW) with The Wypall X60 attached to the cleaning sled. The Wypall X60 reinforced wipe along with the coupons were all sprayed three times with the cleaner and then allowed to soak for 30 seconds. Afterwards the Single Line Washing Unit (SLW) was activated and cleaned for 20 cycles. The clean coupons were all then allowed to dry for one hour at room temperature before the final weights were recorded.

Visual observations were made by a panel of three for spotting and filming following the general guidelines set forth in the CSPA DCC 09A. Filming is best recognized as "haziness" or overall "miliness", while streaking is best identified as dried droplets or "spotting", usually found strung together into thin white lines. Each coupon was evaluated separately for filming and streaking, (i.e., product residues without added soil), according to a scale of "1" to "7" where:

Filming                      Streaking  
7 = high filming              7 = high streaking poor (performance)  
1 = no visible filming      1 = no visible streaking (excellent performance)

## Results:

| Cleaner                             | Substrate | Initial wt. of cont. | Final wt. cont. | % Cont. Removed | Average % of Content Removed | Overall Average % Content Removed |
|-------------------------------------|-----------|----------------------|-----------------|-----------------|------------------------------|-----------------------------------|
| Mrs. Meyers Lavender Glass Cleaner  | Glass     | 0.0946               | 0.0279          | 70.51           | 79.72                        | 81.15                             |
|                                     |           | 0.0868               | 0.0182          | 79.03           |                              |                                   |
|                                     |           | 0.0712               | 0.0074          | 89.61           |                              |                                   |
|                                     | Chrome    | 0.0829               | 0.0134          | 83.84           | 82.59                        |                                   |
|                                     |           | 0.0852               | 0.0144          | 83.10           |                              |                                   |
|                                     |           | 0.0850               | 0.0163          | 80.82           |                              |                                   |
| Cleanyst Free & Clear Glass Cleaner | Glass     | 0.0818               | 0.0093          | 88.63           | 88.31                        | 86.59                             |
|                                     |           | 0.0852               | 0.0063          | 92.61           |                              |                                   |
|                                     |           | 0.0858               | 0.0140          | 83.68           |                              |                                   |
|                                     | Chrome    | 0.0878               | 0.0141          | 83.94           | 84.87                        |                                   |
|                                     |           | 0.0850               | 0.0125          | 85.29           |                              |                                   |
|                                     |           | 0.0814               | 0.0119          | 85.38           |                              |                                   |

## Spotting and Filming Visual Final Averaged Results:

| Cleaner                             | Substrate | Average Spot | Average Film |
|-------------------------------------|-----------|--------------|--------------|
| Mrs. Meyers Lavender Glass Cleaner  | Glass     | 4.6          | 4.4          |
| Cleanyst Free & Clear Glass Cleaner |           | 4.7          | 4.2          |

## CLEANING LABORATORY EVALUATION SUMMARY

|                                     |        |     |     |
|-------------------------------------|--------|-----|-----|
| Mrs. Meyers Lavender Glass Cleaner  | Chrome | 3.9 | 5.5 |
| Cleanyst Free & Clear Glass Cleaner |        | 4.9 | 3.1 |

Summary:

|                      |                                       |                      |                    |                                     |                            |  |
|----------------------|---------------------------------------|----------------------|--------------------|-------------------------------------|----------------------------|--|
| <b>Substrates:</b>   |                                       | Glass/Quartz, Chrome |                    |                                     |                            |  |
| <b>Contaminants:</b> |                                       | Films, Soaps         |                    |                                     |                            |  |
| <b>Company Name:</b> | <b>Product Name:</b>                  | <b>Conc.:</b>        | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b>       |  |
| Mrs Myers Clean Day  | Mrs Meyers Lavender Tub and Tile      | 100                  | 81.15              | <input type="checkbox"/>            | streaking 4.3, filming 4.9 |  |
| Cleanyst             | Cleanyst Free and Clear Glass Cleaner | 100                  | 86.59              | <input checked="" type="checkbox"/> | streaking 4.8, filming 3.6 |  |

Conclusion:

Cleanyst Free & Clear Glass Cleaner more effective than Mrs. Meyers Lavender Glass Cleaner at removing glass soil from chrome and glass substrates. Cleanyst Free & Clear Glass Cleaner had overall less filming and only slightly more spotting than Mrs. Meyers Lavender Glass Cleaner.