

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 06/07/2021

Experimenters: Ross Goding, Edward Judge

ClientType: Lab

ProjectNumber: Project #4

Substrates: Ceramics, Plastic, Chrome

PartType: Coupon

Contaminants: Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test the efficiency of Clorox Bathroom spray on the removal of bathroom soil from ceramic, plastic, and chrome substrates.

Experimental Procedure: Initial weights of each substrate (ceramic, plastic, chrome) were taken and subsequently soiled with 0.5 grams of Bathroom soil. The bathroom soil was allowed to dry for 24 hours before dirty weights of the coupons were taken. Each substrate was manually wiped using the SLW machine with the Clorox Bathroom cleaner. 2 sprays were added to each wipe and coupon. The SLW unit was used for 20 cycles. Final weights were taken an hour after coupons were cleaned.

| Results: | Cleaner | Substrate | Coupon | Initial wt. of contamination | Final wt. of contamination | % Removal | Average % removal | Product removal |
|----------|---------|-----------|--------|------------------------------|----------------------------|-----------|-------------------|-----------------|
| 1        | A       |           | 10     | 0.1359                       | 0.0549                     | 59.60     | 78.66             | 81.34           |
|          |         |           | 28     | 0.1747                       | 0.0117                     | 93.30     |                   |                 |
|          |         |           | 13     | 0.1134                       | 0.0192                     | 83.07     |                   |                 |
|          | B       |           | 18     | 0.0928                       | 0.0213                     | 77.05     | 77.41             |                 |
|          |         |           | 16     | 0.0985                       | 0.0231                     | 76.55     |                   |                 |
|          |         |           | 15     | 0.0852                       | 0.0182                     | 78.64     |                   |                 |
|          | C       |           | 13     | 0.1022                       | 0.0219                     | 78.57     | 87.96             |                 |
|          |         |           | 24     | 0.1527                       | 0.0055                     | 96.40     |                   |                 |
|          |         |           | 17     | 0.1558                       | 0.0173                     | 88.90     |                   |                 |

|                      |                               |  |                    |                                     |  |  |
|----------------------|-------------------------------|--|--------------------|-------------------------------------|--|--|
| Summary:             |                               | <b>Substrates:</b> Ceramics, Plastic, Chrome |                    |                                     |  |  |
|                      |                               | <b>Contaminants:</b> Soaps                   |                    |                                     |  |  |
| <b>Company Name:</b> | <b>Product Name:</b>          | <b>Conc.:</b>                                | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b>   |  |
| Clorox Company       | Disinfecting Bathroom Cleaner | 100%   | 81.34              | <input checked="" type="checkbox"/> | Clorox Bathroom Cleaner was effective in the removal of Bathroom Soil from various substrates. |  |

Conclusion: Overall, this product cleaned the bathroom soil with an overall removal percentage of 81%. It removed soil from the chrome substrate the best with an 88% removal rating. The product itself passes the level in which a product needs to perform as a cleaner which is above an 80% removal rating.