# CLEANING LABORATORY EVALUATION SUMMARY

| | |
|---|---|
| SCL #: | 2002 |
| DateRun: | 03/15/2002 |
| Experimenters: | Purav Dave |
| ClientType: | Lab |
| ProjectNumber: | Project #1 |
| Substrates: | Stainless Steel |
| PartType: | Coupon |
| Contaminants: | Latex binder |
| Cleaning Methods: | Immersion/Soak |
| Analytical Methods: | Gravimetric |
| Purpose: | Laboratory evaluations of alternative cleaning products |
| Experimental Procedure: | Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning.<br>Cleaning: 5 min. immersion cleaning at 120 F with stir-bar agitation.<br>Rinsing: 1/2 min. manual with water at 120 F<br>Drying: 1 min. with heat gun at 500 F<br>Contaminant: Latex Binder Mix<br>Cas #: 9016-45-9, 79-06-1, 7664-41-7, 924-42-5, 50-00-0, 1333-86-4, 57-55-6, 7732-18-5<br>floroacrylate copolymer emulsion, Linear alkyl benzene sulphonate |
| Results: | Observation:<br>1. Cleaning Latex Binder with DS-108-Solvent big pieces of binder were removed as compared to the other cleaners and the solvent remained on the coupons even after rinsing which led to the increase in the weight.<br>2. There was no removal of binder by Tarksol HTF-60. Instead, there were pockets formed which retained the cleaner which led to tremendous increase in weight. |

Summary:

| **Substrates:** | Stainless Steel | | | | |
|---|---|---|---|---|---|
| **Contaminants:** | Latex binder | | | | |
| **Company Name:** | **Product Name:** | **Conc.:** | **Efficiency:** | **Effective:** | **Observations:** |
| Chemical Technologies | Green Thunder | 5 | 80.59 | ☐ | |
| CRC Industries | Complex Blue | 5 | 65.29 | ☐ | |
| United Laboratories International | United 450 All Clear | 5 | 95.06 | ☑ | |
| AJ Associates | Dynadet | 100 | -46.17 | ☐ | |
| Tarksol Inc | Tarksol HTF 60 | 100 | -509.24 | ☐ | |
| EnviroSan Products Ltd | Solution 2000 | 5 | 70.13 | ☐ | |
| Heatbath Corporation | Alu-Kleen 36 | 5 | 69.28 | ☐ | |

Conclusion: Only United 450 all clear was effective.