

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 04/10/2003

Experimenters: Jason Marshall

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Paints

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.
Cleaning: 5 min Immersion cleaning with stir-bar agitation @ 120 F
Rinsing: 1/2 min, manual, in 102 F water (tap)
Drying: 1 min with heat gun @ 500F
Contaminant: Bowman Dist Semi-Gloss Black Enamel Paint
CAS# 67-64-1, 1330-20-7, 64-17-5, 763-69-9

Results:

Summary:

| Substrates: | Stainless Steel | | | | |
|-----------------------------------|---------------------------------------|--------|-------------|-------------------------------------|---------------|
| Contaminants: | Paints | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Metabolix Inc | Metabolix E3HB | 100 | 95.81 | <input checked="" type="checkbox"/> | |
| Florida Chemical Company | Citrus Burst 7 | 100 | 95.45 | <input checked="" type="checkbox"/> | |
| Florida Chemical Company | D-Limonene | 100 | 99.61 | <input checked="" type="checkbox"/> | |
| Bio Chem Systems | Bio T 300 B | 100 | 98.34 | <input checked="" type="checkbox"/> | |
| Brulin Corporation | Nature Sol 100 | 100 | 98.34 | <input checked="" type="checkbox"/> | |
| Twin Rivers Technologies | Methyl Ester 1618 | 100 | 100.58 | <input checked="" type="checkbox"/> | |
| AG Environmental Products | Canola Gold CE110 | 100 | 86.32 | <input checked="" type="checkbox"/> | |
| AG Environmental Products | Soy Gold 1000 | 100 | 93.09 | <input checked="" type="checkbox"/> | |
| AG Environmental Products | Soy Gold 2000 | 100 | 87.14 | <input checked="" type="checkbox"/> | |
| AG Environmental Products | Soy Clear 1500 | 100 | 87.02 | <input checked="" type="checkbox"/> | |
| United Laboratories International | United 2002 Harvest Gold | 100 | 82.12 | <input type="checkbox"/> | |
| Vertec BioSolvents | VertecBio Gold Unscented Part Cleaner | 100 | 89.97 | <input checked="" type="checkbox"/> | |
| Inland Technologies Inc | Citrasafe | 100 | 99.92 | <input checked="" type="checkbox"/> | |
| Finger Lakes Chemical | 2-22 D Limonene Industrial Cleaner | 100 | 99.48 | <input checked="" type="checkbox"/> | |
| EcoLink | Vortex | 100 | 99.79 | <input checked="" type="checkbox"/> | |

Conclusion: Did second test on some coupons using wiping with paper towel to increase efficiency.