

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008

DateRun: 12/11/2008

Experimenters: Jason Marshall, Heidi Wilcox

ClientType: Wire & Cable Mfr

ProjectNumber: Project #2

Substrates: Liquid

PartType: Part

Contaminants: Resins/Rosins

Cleaning Methods: Immersion/Soak

Analytical Methods: Tactile, Visual

Purpose: To identify additional cleaning products for PVC removal.

Experimental Procedure: Nine additional products were selected from the lab's on-line database, www.cleansolutions.org, based on client supplied information and past testing results. All products were used at full strength. The supplied PVC tubing was cut into one inch pieces and immersed into each solution at room temperature. Observations were made at 10, 30, 60, 120, 240 and 480 minutes. Successful products were determined by touching/squeezing the tubing after each interval. If there was any surface change, the product was considered to be successful.

Results: Observations for each product at each interval are listed below using the following key:

| |
|--|
| NS - no sign of change |
| NC - no change from previous observation |
| SS - some softening |
| LS - little softening |
| MS - more softening |
| TC - texture change |

Time Interval Observations

| | 10 | 30 | 60 | 120 | 240 | 480 |
|------------------|----|----|----|-----|-----|-----|
| Canola Gold | NS | NS | NA | NS | SS | NC |
| Soy Gold | NS | NS | SS | SS | SS | NC |
| Shopmaster RC | NS | SS | TC | MS | MS | MS |
| Bean-e-doo | NS | NS | NS | SS | SS | NC |
| Solsafe 245 | NS | NS | NS | TC | LS | LS |
| Harvest Gold | NS | NS | NS | NS | NS | NS |
| SC Soyester | NS | NS | NS | SS | SS | NC |
| Graffiti Remover | NS | NS | SS | LS | NC | NC |
| Soyclear 1500 | NS | NS | NS | NS | NS | NS |

Summary:

| | | | | | |
|-----------------------------------|-----------------------------------|--------|-------------|-------------------------------------|---------------|
| Substrates: | Liquid | | | | |
| Contaminants: | Resins/Rosins | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| AG Environmental Products | Canola Gold CE110 | 100 | | <input type="checkbox"/> | |
| AG Environmental Products | Soy Gold 1000 | 100 | | <input checked="" type="checkbox"/> | |
| Buckeye International | Shopmaster RC | 100 | | <input checked="" type="checkbox"/> | |
| Franmar Chemical | Bean-e-doo (Parts Washer Solvent) | 100 | | <input type="checkbox"/> | |
| Bio Chem Systems | Solsafe 245 | 100 | | <input type="checkbox"/> | |
| United Laboratories International | United 2002 Harvest Gold | 100 | | <input type="checkbox"/> | |
| Gemtek Products | SC Soyester | 100 | | <input checked="" type="checkbox"/> | |
| Spartan Chemical Company | Graffiti Remover SAC | 100 | | <input checked="" type="checkbox"/> | |
| AG Environmental Products | Soy Clear 1500 | 100 | | <input type="checkbox"/> | |

Conclusion: The Shopmaster RC had results that were similar to the DBE 6 previously tested. The four products that showed the most signs of softening the PVC tubing will be retested at an elevated temperature.

CLEANING LABORATORY EVALUATION SUMMARY