CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1999

DateRun: 05/06/1999

Experimenters: Jason Marshall

ClientType: Vessel Cleaning Company

ProjectNumber: Project #2

Substrates:

PartType: Coupon

Contaminants: Adhesive, Resins/Rosins

Cleaning Methods: Immersion/Soak

Analytical Methods: Tactile, Visual

Purpose: To find cleaner that can dissolve adhesive for replacement of Methylene Chloride.

Experimental Procedure: Small sections of the contaminant (~0.5g) were placed into 40 mL vials. Each vial was filled with a cleaning solution selected based on past performance with similar contaminant make-up. Cleaners were selected using the Lab's Effective Tests Conditions database and from vendor supplied information. Full strength solutions (except one) were used at room temperature. Observations were made at five intervals over three days both visual and by tactile methods.
SUBSTRATE MATERIAL: None
CONTAMINANTS: Ashland Chemical Co Aroset 601 (CAS#s: 141-78-6, 67-63-0, 108-88-3, 103-11-7, 141-32-2)

Results: Three cleaners showed goods signs of being able to dissolve the contaminant. Most of the cleaners had some effect on the adhesive, reducing the stickiness after an hour of soaking. Table 1 lists the observations made for each cleaner at the five-time intervals.

Table 1. Visual and Tactile Observations

Time (min)	1	2	3	4	5	6	7
5	No change	No Change	No Change	No Change	No Change	Floating	No Change
30	Floating	On Bottom	On Bottom	On Bottom	Floating	No Change	Light Yellow
60	Less Sticky	Mushy	Less Sticky	Mushy	No Change	Mushy	Mushy-not sticky
120	No Change	More Mushy	No Change	More Mushy	Slightly Mushy	Mushy	No Change
4320	Cloudy	Very Mushy	Some Cloudiness	Very Mushy	No Change	No Change	Very Mushy

Summary:

Substrates:					
Contaminants:	Adhesive, Resins/Rosins				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Buckeye International	Shopmaster	100	0.00	☐	
Bio Chem Systems	Solsafe 245	100	0.00	☑	
Safe CleanUp Solutions	Super Neutral	10	0.00	☐	
AG Environmental Products	Soy Gold 2000	100	0.00	☑	
Gemtek Products	SC Supersolve Safety Solvent	100	0.00	☐	
Savogran Company	HD-34 Cleaner Degreaser	100	0.00	☐	
Savogran Company	SI #4 Coating Remover	100	0.00	☑	

Conclusion: Envirosoluitons Solsafe 245, AG Environmental Soy Gold 2000 and Savogran SI No 4 were all effective in dissolving the adhesive after three days of soaking. All three did show signs of dissolving the adhesive after an hour of soaking at room temperature.