CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 01/08/2002

Experimenters: Jason Marshall

ClientType: State Agency

ProjectNumber: Project #1

Substrates: Plastic

PartType: Coupon

Contaminants: Inks

Cleaning Methods:

Analytical Methods:

Purpose: Identify alternative safe MEK in removing ink from screens

Experimental Procedure: Can anyone identify a potential alternative cleaning solvent for MEK in the following application:
A facility is trying to eliminate the use of MEK in cleaning, but has hit a snag in their screen cleaning (screen printing). The inks they use are MEK-based and cannot be changed currently due to their government customer specs. The MEK is wiped on an 8x8 screen. So far, they tried ethyl acetate, but it dissolved the PVA in the screen. Now they are trying acetone, but the employees complain of smell and health hazards. Any suggestions on a solvent that is safe and could quickly remove an MEK-based ink without hurting PVA-based materials?

Results:

Company Name	Product Name	Classification	Substrate
Brulin Corporation	Compliance	Caustic	Plastic
Chrisal USA, Inc.	Super CMF 240	Alkaline Aqueous	Plastic
Envirosolutions, Inc.	Bio T Max	Semi-Aqueous	Plastic
MacDermid	ND 17	Alkaline Aqueous	Plastic
Mirachem Corporation	Mirachem 500	Alkaline Aqueous	Plastic
Oakite Products	Inproclean 4000 T	Organic	Plastic

Summary:

Conclusion: In addition to the above listed products the lab will send copies of three trials performed for a similar client request.

SCL # 98-682-01-2

SCL # 98-682-02-4

SCL # 98-682-03-4

Cleaning projects vary from case-to-case. To obtain more detailed information about any of the listed products, please contact the lab at (978)934-3133.