CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2001
DateRun:	04/11/2001
Experimenters:	Todd MacFadden
ClientType:	Adhesive Manufacturer
ProjectNumber:	Project #1
Substrates:	Stainless Steel
PartType:	Coupon
Contaminants:	Adhesive
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric, Timing
Purpose:	To identify a suitable, non- or less-toxic substitute cleaner for toluene and toluene-based solvents for this industry sector.
Experimental Procedure:	In an effort to obtain consistent results, this experiment is a re-test of Trial 5. The test is identical to Trial 5, with a notable modification: following the abrasion testing, and final coupon weighing, the coupons were hand-wiped clean using the corresponding cleaner that was used in the abrasion test. Hand-wiping was timed to obtain a quantitative means of analysis. SUBSTRATE MATERIAL: SS (202-410 B85) and SS (302-B86) CONTAMINANTS: a. AC-059 adhesive (108-883), b. Morton 717 adhesive (108-883, 108-05-4, 110-54-3, 142-82-5, 67-63-0)
Results:	There were very few consistent findings in this experiment. For instance, the Dynamold DS 104 cleaner performed almost identically on both adhesives, about 65%. But acted very differently on each substrate during the hand wipe test. It took less than one minute to clean one adhesive but took over 3 minutes for the other adhesive.

Summary:

Substrates:	Stainless Steel				
Contaminants:	Adhesive				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Dysol	DS 104 Wipe Solvent	100	67.00	☑	
Savogran Company	SI #4 Coating Remover	100	15.93	☐	
Transene Company, Inc.	D Greeze 500 LO	100	11.62	☐	
Today & Beyond	Beyond 2009	100	33.96	☐	
Bio Chem Systems	Bio T Max	100	87.68	☑	

Conclusion: It is important to note the poor performance of D-Greeze on Solutial, where as it cleaned 20% in trial 6. Toluene worked the best.