CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 10/15/2002

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Adhesive

Cleaning Methods: Ultrasonics

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.

Degassing: Degassing the solution by keeping solutions in ultrasonic crest for 5 min at 120 F.
Cleaning: Ultrasonic for 5 min. at 120 F.
Rinsing: NONE
Drying: wiping with paper towels, 10 passes to remove adhesive

Contaminant: Aroset PS 8078, Ashlan Chemical (Lot# 071901). Very thick adhesive
CAS#'s 141-78-6 Ethyl Acetate, 142-82-5 Heptane, 67-63-0 Isopropanol

Results:

Summary:

Substrates:	Aluminum				
Contaminants:	Adhesive				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
AG Environmental Products	Soy Gold 1100	100	99.41	☑	Sticky after ultrasonics. Removal due to wiping, 10 times with paper towel.
Phase III Inc	Biodegradable Paint & Adhesive Remover	100	28.09	☐	
EcoLink	Rip Tide	10	99.57	☑	Adhesive had mushy texture. Very easy to remove by wiping. 5 wipes to remove adhesive.
Pentone Corporation	Citrikleen XPC	100	99.66	☑	very easy removal with wipe/ scrape
Metabolix Inc	Metabolix E3HB	100	37.32	☐	
Vertec BioSolvents	VertecBio Gold Unscented Part Cleaner	100	81.41	☐	More wipes or scraping would have removed more

Conclusion: This is a very tough adhesive. Four of the cleaners were successful in working on the adhesive and loosening or softening it making removal by wiping or scraping a possibility. This adhesive does not respond well to low flow water rinsing and air drying or blow off.