CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2005
DateRun:	07/06/2005
Experimenters:	Jason Marshall, Fred Youngs
ClientType:	Lab
ProjectNumber:	Project #1
Substrates:	Teflon
PartType:	Coupon
Contaminants:	Greases, Lubricating/Lapping Oils, Oil
Cleaning Methods:	
Analytical Methods:	
Purpose:	To generate a list of products that could be used to replace Methylene Chloride.
Experimental Procedure:	Using the laboratory's database for solvent cleaning substitution, the lab generated a list of products that could be used in place of Methylene Chloride. A comparison of physical properties was conducted as well.
Results:	A list of 19 products was compiled. Various physical characteristics were compared to Methylene Chloride. The physical properties researched include: Vapor Pressure, Latent Heat, Surface tension, Boiling Point, Flash Point, ODP, GWP, VOC, SNAP , KB value, Exposure Level, Chemical Formula, Molecular Wt, Freezing Pt, Sp Gr, Density, Vapor Density, Specific Heat, Refractive Index, Viscosity, Solubility of water, Solubility in water, Solvent-water Azetrope BP, Flammable limits and the Hansen Parameters. Not all properties were identified for the listed products. List of Alternatives Asahiklin AK 225 CCA MCA Heavy Duty Degreaser C Flux Remover C HFE 7100 HFE 71DE HFE 7200 Ensolv Ensolv A LENIUM CP LENIUM ES LENIUM GS Metalnox M6960 Solvon PB Solvon IP OS 10 OS 20 OS 30
Summary:	
Conclusion:	Cleaning varies from case to case. The SSL recommends process specific testing on potential replacement cleaning chemicals. If more information is needed on a particular product, or you are interested in conducting cleaning trials, please contact the lab at (978)934-3133.