CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2004
DateRun:	09/01/2004
Experimenters:	Jason Marshall
ClientType:	Manufacturing
ProjectNumber:	Project #1
Substrates:	Plastic
PartType:	Coupon
Contaminants:	Greases, Mold Releases, Fingerprints
Cleaning Methods:	
Analytical Methods:	
Purpose:	To identify a list of alternatives for removing mold release agents (silicone based) in a manual operation.
Experimental Procedure:	Using the laboratory's database for solvent cleaning substitution, the lab generated the following lists of products based on vendor supplied information only. Testing of these products under the specific conditions has not been conducted at this time at SSL.
Results:	The products listed below have been recommended by vendors for removing grease and Mold Releases/ Silicones from plastic parts using manual wiping applications. Using the laboratory's safety ranking system, all of these products were found to be potentially safer than MEK. (The lab uses five criteria to assess safety: Global warming potential, ozone depletion potential, volatile organic content, pH and the NFPA/ HMIS rating system)

CompanyName	ProductName	ClassificationDescription
3M	HFE 7200	HFE
Alconox Inc	Alconox	Powder Detergent
Bio Chem Systems	Bio T 200 A	Terpene
Bio Chem Systems	Bio T Max	Terpene-Semi-Aqueous
Bio Chem Systems	Green Stuff (6325)	Alkaline Aqueous
Bio Chem Systems	Solsafe 245	Petroleum Distillate
Buckeye International	Shopmaster	Alkaline Aqueous
Buckeye International	Shopmaster LPH	Alkaline Aqueous
Chrisal USA Inc	Super CMF 240	Alkaline Aqueous
Emkay Chemical Company	Safety Wash	Alkaline Aqueous
Emkay Chemical Company	Safety Wash Clear	Alkaline Aqueous
Gemtek Products	SC Supersolve	Organic
Hotsy Cleaning Systems	Hotsy Detergents Tub & Pressure Wash	Alkaline Aqueous
Magnaflux	Daraclean 212	Neutral Aqueous
Magnaflux	Daraclean 235	Neutral Aqueous
Magnaflux	Daraclean 282	Alkaline Aqueous
Magnaflux	Daraclean 282 GF	Alkaline Aqueous
Magnaflux		Alkaline Aqueous

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	Daraclean 283	
Oakite Products	Inproclean 4000 T	Terpene-Organic
Safe Science	Safe Science Concrete/ Graffiti (Industrial)	Alkaline Aqueous
Savogran	Dirtex Prepaint Cleaner	Alkaline Aqueous
Savogran	HD-34 Cleaner Degreaser	Semi-Aqueous
Solvent Kleene Inc	D Greeze 500 LO	Organic
Tarksol Inc	Tarksol HTF 40	Terpene-Semi-Aqueous
Today & Beyond	Beyond 2001	Alkaline Aqueous
Today & Beyond	Beyond 2003	Alkaline Aqueous
Today & Beyond	Beyond 2004	Alkaline Aqueous
Today & Beyond	Beyond 2005	Alkaline Aqueous
Today & Beyond	Beyond 2006	Alkaline Aqueous
US Polychem Corporation	Polychem 2000 P	Alkaline Aqueous
US Polychem Corporation	Polychem A 2000 XS	Alkaline Aqueous
US Polychem Corporation	Polychem DEOX 007	Alkaline Aqueous
US Polychem Corporation	Polychem PW 147	Alkaline Aqueous
US Polychem Corporation	Polychem Ultra CR	Alkaline Aqueous
US Polychem Corporation	Polyspray Jet 790 P	Alkaline Aqueous
US Polychem Corporation	Polyspray Jet 790 XS	Alkaline Aqueous
Valtech Corporation	Valtron SP 2200	Alkaline Aqueous

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.