

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2001

DateRun: 12/10/2001

Experimenters: Jason Marshall

ClientType: City Pollution Prevention

ProjectNumber: Project #1

Substrates: Aluminum, Stainless Steel

PartType: Coupon

Contaminants: Inks

Cleaning Methods: Immersion/Soak

Analytical Methods:

Purpose: Looking for an alternative solvent to remove ink from the typewriter's platens and roller

Experimental Procedure: I am working with a local business that performs repairs on typewriters. They are looking for an alternative solvent to remove ink from the typewriter's platens and roller. They are currently using a solvent that is 50% perchloroethylene and @40% aliphatic solvent. I have conducted some research using SAGE and the P2 tech archives. However, I have not located any recommendations specific to this application. Any recommendations or sources of information is greatly appreciated.

Results: Using the laboratories databases, two lists of products were generated. The first is based on the parameters listed prior to the table of products. The products with the larger numbers met more of the parameters (The highest in this case would be 4). These are based on vendor information. The second table contains a list of products evaluated by the lab for ink removal.

Vendor Products			
Parameters			
Contaminant	Equipment	Substrate	Total
Inks	Immersion/Soak	Rubber	69
Inks	Immersion/Soak	Stainless Steel	137
Inks	Ultrasonics	Rubber	63
Inks	Ultrasonics	Stainless Steel	104

Company	Product	Classification	Parameters Met
Accurate Manufactured Products	Safety Layout Blue Remover	Terpene	1
AGA Chemical	AK 225	HCFC	2
AJ Associates	Dynadet	Caustic	2
Albemarle Corp	Abzol Cleaners	Organic	2
Alconox, Inc.	Det-O-Jet	Alkaline Aqueous	2
AW Chesterton	278 Super Solv	Petroleum Distillate	1
Blue Wave Ultrasonics, Inc.	Dirl-Lum 603 Powdered Detergent	Alkaline Aqueous	1
Blue Wave Ultrasonics, Inc.	Dirl-Lum 603 Powdered Detergent	Powder Detergent	1
Blue Wave Ultrasonics, Inc.	Dirl-Strip 606 Powdered Detergent	Caustic	1

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Blue Wave Ultrasonics, Inc.	Dirl-Strip 606 Powdered Detergent	Powder Detergent	1
Broco Products Inc.	Broco OC-HDD	Powder Detergent	1
Brulin Corporation	Brulin 1696 PNC	Neutral Aqueous	4
Buckeye International	Shopmaster	Alkaline Aqueous	2
Buckeye International	Shopmaster FF	Alkaline Aqueous	2
Buckeye International	Shopmaster LPH	Alkaline Aqueous	2
Bush Boake Allen Inc	BBA Solvent K312	Terpene	1
By*Pas & Star Cleaning Products	By*Pas #1500	Alkaline Aqueous	4
By*Pas & Star Cleaning Products	Star Cleaning Miracle # 50	Alkaline Aqueous	4
Calgon Corporation	SMS 206 K	Alkaline Aqueous	2
Chem Tech Solutions	Westech CT-4712	Acidic Aqueous	1
Chemtronics	Super Bio Wash	Semi-Aqueous	2
Chrisal USA, Inc.	Super CMF 240	Alkaline Aqueous	4
Diversey	Gangbusters	Organic	1
Dynamold Solvents, Inc.	DS-104	Petroleum Distillate	2
Dynamold Solvents, Inc.	DS-108	Petroleum Distillate	2
Envirosolutions, Inc.	Bio T Foam Plus	Terpene	2
Envirosolutions, Inc.	Bio T Max	Semi-Aqueous	2
Envirosolutions, Inc.	Bio T Max	Terpene	2
Envirosolutions, Inc.	Bio T V-50	Terpene	4
Envirosolutions, Inc.	Green Stuff (6325)	Alkaline Aqueous	4
Envirosolutions, Inc.	Neutral Green (8020)	Alkaline Aqueous	4
Envirosolutions, Inc.	SOLSAFE 245	Petroleum Distillate	4
Finger Lakes Chemicals	1/1/02	Terpene	1
Florida Chemical Co	D-Limonene	Terpene	1
Gemtek Products	SC 1000	Alkaline Aqueous	4
Gemtek Products	SC Supersolve	Organic	2
General Chemical Corporation	Aquaclean 4874	Caustic	2
Hazwell International	Biosolve	Neutral Aqueous	4
Hotsy Cleaning Systems	Hotsy Tub & Pressure Wash	Alkaline Aqueous	4

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Inland Technologies Inc	Citrasafe	Terpene	1
Inland Technologies Inc	EP 921	Organic	1
Inland Technologies Inc	Safety Prep	Terpene	1
International Products Corp	Micro	Alkaline Aqueous	2
International Products Corp	Micro 90	Alkaline Aqueous	2
ISP Technologies	N Methyl Pyrrolidone	Organic	2
ISP Technologies	Ship Shape Resin Cleaner	Organic	1
Kyzen Corporation	Metalnox 6304	Alkaline Aqueous	2
Kyzen Corporation	Misprint Stencil Remover	Hydrocarbon	2
Loctite Corporation	7360	Ester	2
LPS Laboratories	LPS Precision Clean	Alkaline Aqueous	4
MacDermid	ND 17	Alkaline Aqueous	4
New Pig Corporation	New Pig Degreaser	Semi-Aqueous	1
New Pig Corporation	New Pig Degreaser	Terpene	1
Northern Products, Inc.	Necco Super Cleaner	Alcohol	4
Northern Products, Inc.	Necco Super Cleaner	Alkaline Aqueous	4
Oakite Products	Citradet	Semi-Aqueous	2
Oakite Products	Inproclean 2300	Alkaline Aqueous	2
Oakite Products	Inproclean 3800	Alkaline Aqueous	2
Oakite Products	Inproclean 4000 T	Organic	2
Purac America, Inc.	Purasolv Els	Organic	1
Safe Science	Safe Science All Purpose (Industrial)	Alkaline Aqueous	2
Safe Science	Safe Science Concrete/ Graffiti	Alkaline Aqueous	4
Safe Science	Safe Science Engine Degreaser	Terpene	1
Savogran	HD-34 Cleaner Degreaser	Semi-Aqueous	1
Savogran	Safety-Solve	Organic	1
Savogran	SI #3 Coating Remover	Organic	1

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Savogran	SI #8 Coating Remover	Alcohol	1
Savogran	SI #8 Coating Remover	Organic	1
Simple Green	All Purpose Cleaner/ Degreaser	Alkaline Aqueous	2
Simple Green	Industrial Strength Cleaner/ Degreaser	Alkaline Aqueous	4
Simple Green	Simple GreenD Disinfectant/ Cleaner	Alkaline Aqueous	4
Sky Products Co., Inc.	Cleaner #10	Alkaline Aqueous	4
Solvent Kleene, Inc.	D-Greeze 1000	Petroleum Distillate	2
Solvent Kleene, Inc.	D-Greeze 500 LO	Organic	2
Soy Environmental Products	Soy Clean	Organic	1
System One Technologies	QSOL-100	Petroleum Distillate	4
System One Technologies	QSOL-110	Petroleum Distillate	4
System One Technologies	QSOL-200	Organic	4
System One Technologies	QSOL-220	Organic	4
Tarksol, Inc.	Tarksol HTF-10 B	Terpene	2
Tarksol, Inc.	Tarksol HTF-50	Semi-Aqueous	1
Tarksol, Inc.	Tarksol HTF-60	Terpene	1
Today & Beyond	Beyond-2001	Alkaline Aqueous	4
Today & Beyond	Beyond-2002	Alkaline Aqueous	4
Today & Beyond	Beyond-2003	Alkaline Aqueous	4
Today & Beyond	Beyond-2004	Alkaline Aqueous	4
Today & Beyond	Beyond-2005	Alkaline Aqueous	4
Today & Beyond	Beyond-2006	Alkaline Aqueous	4
Today & Beyond	Beyond-2007	Alcohol	4
Tower Products, Inc	Tower 270 Cleaner Concentrate	Alkaline Aqueous	2
Twin Rivers Corp	Graffiti Remover	Organic	1
Twin Rivers Corp	Methyl Ester 1618	Ester	1
U.S. Polychem Corp.	Hydropurge 36	Alkaline Aqueous	4
U.S. Polychem Corp.	Polychem 2000 P	Alkaline Aqueous	4
U.S. Polychem Corp.	Polychem A 2000 XS	Alkaline Aqueous	4

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U.S. Polychem Corp.	Polychem Acra Strip 600	Neutral Aqueous	2
U.S. Polychem Corp.	Polychem DE-144	Petroleum Distillate	4
U.S. Polychem Corp.	Polychem DEOX 007	Alkaline Aqueous	4
U.S. Polychem Corp.	Polychem Hydropurge 21	Alkaline Aqueous	4
U.S. Polychem Corp.	Polychem Hydropurge 36 XS	Alkaline Aqueous	4
U.S. Polychem Corp.	Polychem Hydropurge XS-790	Alkaline Aqueous	4
U.S. Polychem Corp.	Polychem PW-147	Alkaline Aqueous	4
U.S. Polychem Corp.	Polychem QS-85 LO	Petroleum Distillate	2
U.S. Polychem Corp.	Polychem RCC-25	Petroleum Distillate	4
U.S. Polychem Corp.	Polyspray Jet 790 C	Caustic	4
U.S. Polychem Corp.	Polyspray Jet 790 P	Alkaline Aqueous	4
U.S. Polychem Corp.	Polyspray Jet 790 XS	Alkaline Aqueous	4
U.S. Polychem Corp.	Polyspray Jet ST-21	Alkaline Aqueous	4
U.S. Polychem Corp.	Product 69 MC	Alcohol	1
Valtech Corporation	Valtron SP 2250-2LF	Alkaline Aqueous	2
Valtech Corporation	Valtron SP 2270	Alkaline Aqueous	2
Valtech Corporation	Valtron SP 2700-KB	Acidic Aqueous	2
W.R. Grace & Co.	Daraclean 121	Alkaline Aqueous	1
W.R. Grace & Co.	Daraclean 203	Caustic	4
W.R. Grace & Co.	Daraclean 212	Neutral Aqueous	4
W.R. Grace & Co.	Daraclean 235	Neutral Aqueous	4
W.R. Grace & Co.	Daraclean 236	Neutral Aqueous	4
W.R. Grace & Co.	Daraclean 238	Alkaline Aqueous	4
W.R. Grace & Co.	Daraclean 257	Alkaline Aqueous	4
W.R. Grace & Co.	Daraclean 282	Alkaline Aqueous	4
W.R. Grace & Co.	Daraclean 282 GF	Alkaline Aqueous	4
W.R. Grace & Co.	Daraclean 283	Alkaline Aqueous	4
W.R. Grace & Co.	Daraclean 294 xx	Semi-Aqueous	1
Warren Chemical Co	Sea Wash Cleaner	Alkaline Aqueous	4
Watson Technical Associates	Drain Away	Alkaline Aqueous	2

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Watson Technical Associates	Watson Formula 7000	Alkaline Aqueous	2
Westford Chemical Corporation	Biosolve	Neutral Aqueous	4

Lab Evaluated for Ink Cleaning

Company	Product	Classification	Substrate	Trials
Accurate Manufactured Products	Safety Layout Blue Remover	Terpene	Stainless Steel	1
AG Environmental Products	Soy Gold 1000	Organic	Stainless Steel	1
Envirosolutions, Inc.	Bio T Max	Semi Aqueous Terpene	Stainless Steel	2
Finger Lakes Chemicals	1/1/02	Terpene	Stainless Steel	1
Inland Technologies Inc	EP 921	Organic	Stainless Steel	1
Oakite Products	Inproclean 4000 T	Organic	Stainless Steel	1
SWR Corp	SWR One	Alkaline Aqueous	Stainless Steel	2
Tarksol, Inc.	Tarksol HTF-60	Terpene	Stainless Steel	2
Warren Chemical Co	Sea Wash Neutral	Neutral Aqueous	Stainless Steel	1

Summary:

Substrates:	Aluminum, Stainless Steel				
Contaminants:	Inks				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
No Specific Vendor	Supplied alternatives list			<input type="checkbox"/>	

Conclusion:

Cleaning projects vary from case-to-case. To identify a specific cleaning agent, testing with any of the above listed products should be performed. If you would like the SSL to perform this testing, please contact the lab at (978)934-3133 to arrange delivery of parts and samples of specific contaminants.