CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2003
DateRun:	03/18/2003
Experimenters:	Jason Marshall
ClientType:	Metal
ProjectNumber:	Project #1
Substrates:	Carbon Steel, Steel, Lead
PartType:	Coupon
Contaminants:	Greases, Lubricating/Lapping Oils, Oil
Cleaning Methods:	Immersion/Soak
Analytical Methods:	
Purpose:	To identify alternative cleaners for removing oil and grease in immersion cleaning
Experimental Procedure:	Using the supplied information, two lists of products were created. The first list contains products that have been used in the lab for cleaning oils and or greases from steel surfaces using an immersion system. The contaminants and equipment may not exactly match the supplied information. The second list contains products recommended by vendors. The products match the specified information from the search form. The second table contains vendor recommended products that were identified for oil and or grease removal from steel, carbon steel or lead using immersion cleaning. The Value listed in the table is an environmental ranking based on SSL's indicators: VOC content, Global Warming Potentials, Ozone Depletion Potentials, HMIS/NFPR ratings and pH. Scores are based on a maximum of 50 points. The higher scores implies a potentially safer product.
Results:	The first table lists laboratory tested products based on steel substrates. The first colum lists the number of times the product was used succesfully under the requested conditions.

Table 1. Manual Cleaning of Glass for various soils

Total Effective	CompanyName	ProductName	ClassificationDescription
11	Valtech Corporation	Valtron SP 2250 2LF	Alkaline Aqueous
10	United Laboratories	United 450 All Clear	Enzymatic/Microbial
9	Ardrox	6333	Caustic
9	Ecolink	Heavy Weight Non Butyl Detergent	Alkaline Aqueous
9	Ensolve Biosystems Inc	Grease Feast Plus	Enzymatic/Microbial
9	Safe Science	Safe Science Engine Degreaser	Terpene
8	Ecolink	Universal Steam Cleaner	Alkaline Aqueous
8	Emkay Chemical Company	Safety Wash Clear	Alkaline Aqueous
8	Oakite Products	Inproclean 3800	Alkaline Aqueous
7	Brulin Corporation	Formula 815 GD	Alkaline Aqueous
7	Chem Free Corporation	Ozzy Juice SW 3	Enzymatic/Microbial
7	Drummond American	Keynote	Neutral Aqueous
7	Westford Chemical Corporation	Biosolve	Neutral Aqueous
6			Alkaline Aqueous

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	Gemtek Products	SC Aircraft & Metal Cleaner	
6	Heatbath Corporation	Multi-Kleen 1568	Alkaline Aqueous
6	Heatbath Corporation	Power Wash Cleaner BCR	Alkaline Aqueous
6	ITW Fluid Products Group	AccuClean	Alkaline Aqueous
6	Solvent Kleene Inc	D Greeze 500 LO	Organic
6	Twin Rivers Corp	Methyl Ester 1618	Ester
6	US Polychem Corporation	Polyspray Jet 790 P	Alkaline Aqueous
5	Calgon Corporation	AK 6215	Alkaline Aqueous
5	Calgon Corporation	Geo Guard 2215	Alkaline Aqueous
5	Cleansafe Solutions	Solution 2000	Alkaline Aqueous
5	Drummond American	Clout	Semi-Aqueous
5	Ecolink	Vortex	Semi-Aqueous
5	Heatbath Corporation	Alu-Kleen 36	Acidic Aqueous
5	Innovative Organics Inc	Amberclean L 12	Alkaline Aqueous
5	JDI Inc	Mirachem 500 RTU	Alkaline Aqueous
5	Kleer Flo Company	Grease Off 2	Alkaline Aqueous
5	New Pig Corporation	New Pig Degreaser	Terpene-Semi-Aqueous
5	Oakite Products	Inproclean 4000 T	Terpene-Organic
5	Valtech Corporation	Valtron SP 2200	Alkaline Aqueous
5	Warren Chemical Company	Sea Wash Neutral	Neutral Aqueous
4	Baum's Castorine Company Inc	EZE Oil-Grease Cleaner	Alkaline Aqueous
4	Bio Chem Systems	Bio T Parts Washer NR	Terpene
4	International Products Corporation	LF 2100	Alkaline Aqueous
4	Mirachem Corporation	Mirachem 500	Alkaline Aqueous
4	Oakite Products	Oakite 77	Powder Detergent
4	Safe Science	Safe Science Concrete/ Graffiti	Alkaline Aqueous
4	Smart Sonic	440 R SMT Detergent	Alkaline Aqueous
4	Today & Beyond	Beyond 2001	Alkaline Aqueous
4	US Polychem Corporation	Polychem PW 147	Alkaline Aqueous
4	US Polychem Corporation	Polyspray Jet 790 XS	Alkaline Aqueous
4		Sea Wash 700 New	Neutral Aqueous

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	Warren Chemical Company		
4	Warren Chemical Company	Sea Wash 700 Old	Neutral Aqueous
3	Bio Chem Systems	Solsafe 245	Petroleum Distillate
3	Chem Free Corporation	Ozzy Juice SW 1	Enzymatic/Microbial
3	DA Stuart Company	Dasco Kleen 3250	Alkaline Aqueous
3	Hubbard Hall Inc	Aquasonic 201	Alkaline Aqueous
3	International Products Corporation	Micro 90	Alkaline Aqueous
3	Magnaflux	Daraclean 212	Neutral Aqueous
3	Magnaflux	Daraclean 282 GF	Alkaline Aqueous
3	Matchless Metal Polish Company	MC 580	Alkaline Aqueous
3	North Atlantic Bio Industries	NAB 9000	Neutral Aqueous
3	Today & Beyond	Beyond 2002	Alkaline Aqueous
3	Today & Beyond	Beyond 2004	Alkaline Aqueous
3	Today & Beyond	Beyond 2005	Alkaline Aqueous
3	Today & Beyond	Beyond 2009	Organic
2	AG Environmental Products	Soy Gold 2000	Organic
2	AJ Associates	Dynadet	Caustic
2	AW Chesterton	KPC 820 N	Alkaline Aqueous
2	Bio Chem Systems	Bio T 200 A	Terpene
2	Bio Chem Systems	Green Stuff (6325)	Alkaline Aqueous
2	Branson	GP	Alkaline Aqueous
2	Buckeye International	Shopmaster	Alkaline Aqueous
2	Calgon Corporation	RT 806	Alkaline Aqueous
2	Chem Tech Solutions	Westech CT 1550	Terpene
2	Chemical Technologies	Green Thunder	Alkaline Aqueous
2	Cleaning Systems	Release	Alkaline Aqueous
2	Diversey	Twist	Terpene
2	Dow Chemical Company	XUS 40579 Development Solvent	Alcohol
2	Ecolink	Safe Strip	Organic
2	Fine Organic Corporation	FO 2085 M	Alkaline Aqueous
2	Finger Lakes Chemicals	Resineater	Terpene
2	Gemtek Products	SC Supersolve	Organic
2		Uni Kleen 10	Powder Detergent

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	Heatbath Corporation		
2	Hurri Kleen	Parts Washer Degreaser	Alkaline Aqueous
2	International Bio System	Bio Z	Acidic Aqueous
2	International Products Corporation	Surface Cleanse 930	Neutral Aqueous
2	Kyzen Corporation	Ionox FCR	Semi-Aqueous
2	Kyzen Corporation	Ionox HC 2	Alcohol
2	MacDermid	ND 17	Alkaline Aqueous
2	Magnaflux	Daraclean 121	Alkaline Aqueous
2	Magnaflux	Daraclean 282	Alkaline Aqueous
2	Man Gill Chemical	Gillite 0650 Cl	Alkaline Aqueous
2	Matchless Metal Polish Company	MC 132	Alkaline Aqueous
2	Oakite Products	Oakite Low Heat Cleaner 1	Powder Detergent
2	Pentone Corporation	Citrikleen XPC	Terpene-Semi-Aqueous
2	Permatex Industrial Corporation	Natural Blue	Alkaline Aqueous
2	Safe CleanUp	Super Neutral	Enzymatic/Microbial
2	Safe Science	Safe Science All Purpose (Industrial)	Alkaline Aqueous
2	Savogran	Dirtex Prepaint Cleaner	Alkaline Aqueous
2	Solvent Kleene Inc	D Greeze 1000	Petroleum Distillate
2	Solvent Kleene Inc	D-Greeze GL 55	Alkaline Aqueous
2	Today & Beyond	Beyond 2003	Alkaline Aqueous
2	Tower Products Inc	Tower 270 Cleaner Concentrate	Alkaline Aqueous
2	Turco Products Inc	Turco 5948 DPM	Alkaline Aqueous
2	U.S. Polychem Corporation	87 RB	Hydrocarbon
2	US Polychem Corporation	Polychem A 2000 XS	Alkaline Aqueous
2	Warren Chemical Compnay	Sea Wash 8	Neutral Aqueous
1	Abatement Technology	Bio Might 100	Alkaline Aqueous
1	Alconox Inc	Det-O-Jet	Alkaline Aqueous
1	AW Chesterton	278 Super Solv	Petroleum Distillate
1	Bio Chem Systems	Bio T 300 B	Terpene-Semi-Aqueous
1	Bio Chem Systems	Bio T Max	Terpene-Semi-Aqueous

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1	Bio Chem Systems	Bio T V 50	Terpene
1	Brulin Corporation	Natural Sol 100	Alkaline Aqueous
1	Buckeye International	Shopmaster HP	Alkaline Aqueous
1	Buckeye International	Shopmaster LPH	Alkaline Aqueous
1	Calgon Corporation	Geo Guard 2000	Alkaline Aqueous
1	Calgon Corporation	Geo Guard 4017	Alkaline Aqueous
1	Calgon Corporation	GP Xtra	Alkaline Aqueous
1	Chemstation	Green Stuff Neutral	Neutral Aqueous
1	Chemtronics	Super Bio Wash	Semi-Aqueous
1	Diversey	Dusqueeze	Semi-Aqueous
1	Diversey	Gangbusters	Organic
1	Dow Chemical Company	XUS 40570 Development Solvent	Alcohol
1	Emkay Chemical Company	Safety Wash	Alkaline Aqueous
1	Emkay Chemical Company	Safety Wash CRC	Alkaline Aqueous
1	Environmental Services	TASC	Alkaline Aqueous
1	Finger Lakes Chemicals	1-1-02	Terpene
1	Finish Line Technologies Inc	Bio Degradable Degreaser	Semi-Aqueous
1	Gemtek Products	ODOR-EX	Alkaline Aqueous
1	General Chemical Corporation	Aluminex 5834	Alkaline Aqueous
1	Heatbath Corporation	MultiKleen LX 1573	Alkaline Aqueous
1	Hubbard Hall Inc	Ram Charger	Alkaline Aqueous
1	Inland Technologies Inc	Citrasafe	Terpene
1	Innovative Organics Inc	Amber Clean SC 11	Neutral Aqueous
1	LPS Laboratories	LPS Precision Clean	Alkaline Aqueous
1	MacDermid	ND LF Supreme	Alkaline Aqueous
1	Magnaflux	Daraclean 283	Alkaline Aqueous
1	Man Gill Chemical	Gillite 1156	Powder Detergent
1	Man Gill Chemical	Gillite 160 X	Alkaline Aqueous
1	Master Chemical Corporation	Trim Rinse 200	Alkaline Aqueous
1	Novamax Technologies Inc	Spectrum APC	Alkaline Aqueous

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1	Oakite Products	Fisan Versaclean	Alkaline Aqueous
1	Oakite Products	Inproclean 2500	Powder Detergent
1	Simple Green	Crystal Simple Green Industrial Cleaner	Alkaline Aqueous
1	Simple Green	Simple Green D	Alkaline Aqueous
1	Sterling	Mineral Spirits	Solvent
1	SWR Corporation	SWR One	Alkaline Aqueous
1	Sysco	Heavy Duty Kitchen Formula	Alkaline Aqueous
1	Tarksol Inc	SRKS 40	Terpene
1	Texo Corporation	Texolite 1734 XL	Alkaline Aqueous
1	Today & Beyond	Beyond 2006	Alkaline Aqueous
1	US Polychem Corporation	Polyspray Jet 790 C	Caustic
1	Warren Chemical Company	Sea Wash 8 New	Neutral Aqueous
1	Watson Technical Associates	Watson Formula 7300	Alkaline Aqueous
1	Watson Technical Associates	Watson Formula 9000	Alkaline Aqueous

Second Search Parameters

Contaminant:	Oils or Greases	
Substrate:	Steels	
Equipment:	Immersion/soak	
Safety Value	CompanyName	ProductName
50	North Atlantic Bio Industries	NAB 9000
50	Safe CleanUp	Super Neutral
50	Warren Chemical Company	Sea Wash 700 New
50	Warren Chemical Company	Sea Wash 700 Old
50	Warren Chemical Company	Sea Wash 8 New
50	Warren Chemical Company	Sea Wash Neutral
50	Warren Chemical Compnay	Sea Wash 8
49	Alconox Inc	Liquinox
49	Amax Corporation	Safety First
49	Ausimont USA Inc	Perfluorosolv PFS 1
49	Chem Free Corporation	Heavy Grease Formula SW 2
49		

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	Chem Free Corporation	Ozzy Juice SW 1
49	Chem Free Corporation	Ozzy Juice SW 3
49	Gemtek Products	SC Aircraft & Metal Cleaner
49	Innovative Organics Inc	Amber Clean SC 11
49	New Pig Corporation	New Pig Degreaser
49	Tarksol Inc	Tarksol HTF 40
49	Watson Technical Associates	Watson Formula 9000
48	Buckeye International	Shopmaster LPH
48	Gemtek Products	ODOR-EX
48	Hubbard Hall Inc	Aquasonic 201
48	Innovative Organics Inc	Amberclean L 12
48	Magnaflux	Daraclean 121
48	Magnaflux	Zyglo Emulsifier ZR 10B
48	Petroferm Inc	Bioact 50
48	Solvent Kleene Inc	D Greeze 1000
47	AG Environmental Products	Canola Gold CE110
47	AG Environmental Products	Soy Clear 1500
47	AG Environmental Products	Soy Gold 2000
47	Baum's Castorine Company Inc	Protecto Clean 148
47	Buckeye International	Immersion Cleaner
47	Chemical Technologies	Green Thunder
47	Chemtronics	Super Bio Wash
47	Cleansafe Solutions	Solution 2000
47	Diversey	Dusqueeze
47	Finger Lakes Chemicals	Resineater
47	Gemtek Products	SC 1000
47	Gemtek Products	SC Supersolve
47	Innovative Organics Inc	Amberclean 527 L
47	International Products Corporation	Zymit
47	ITW Fluid Products Group	AccuClean
47	JDI Inc	Mirachem 500 RTU
47	Oakite Products	Inproclean 2500
47	Phase III Ink	

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		California Parts Washer Solution
47	Savogran	HD-34 Cleaner Degreaser
47	Texo Corporation	Texolite 1734 XL
47	United Laboratories	United 450 All Clear
47	US Polychem Corporation	Polychem 2000 P
47	Westford Chemical Corporation	Biosolve
47	Westford Chemical Corporation	Biosolve
46	Alconox Inc	Citranox
46	Bio Chem Systems	Bio T V 50
46	Buckeye International	Work Out
46	Church & Dwight	Armaklean E 2001
46	Church & Dwight	Armaklean E 2002
46	Delta Omega Technologies Ltd	DOT 111/113
46	Environmental Services	TASC
46	Heatbath Corporation	Alu-Kleen 36
46	Houghton International	Certa Kleen 5387
46	Hubbard Hall Inc	Ram Charger
46	International Products Corp	Micro
46	International Products Corporation	Micro 90
46	International Products Corporation	Surface Cleanse 930
46	Magnum Research	Aluminum Aerowash
46	Today & Beyond	Beyond 2007
46	Tomah Products	Tomadyne 102
46	US Polychem Corporation	Polyspray Jet 790 P
45	AG Environmental Products	Soy Gold 1000
45	AW Chesterton	181 Low Alkaline Cleaner
45	AW Chesterton	KPC 820 N
45	Brulin Corporation	EXP 1400
45	Buckeye International	Shopmaster
45	Carroll Company	Blue Gold Industrial Cleaner
45	Church & Dwight	Armaklean M Aero
45		

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	Church & Dwight	Armakleen M Auto
45	Heatbath Corporation	Power Wash Cleaner BCR
45	Magnaflux	Daraclean 235
45	Man Gill Chemical	Gillite 1156
45	Master Chemical Corporation	Trim Rinse 200
45	Oakite Products	Inproclean 2300
45	Safe Science	Safe Science Engine Degreaser (Industrial)
45	Savogran	Dirtex Prepaint Cleaner
45	Simple Green	Crystal Simple Green Industrial Cleaner
45	Sky Products Company Inc.	Cleaner #10
45	Tomah Products	Tomadyne Mix
45	US Polychem Corporation	Polychem A 2000 XS
45	US Polychem Corporation	Polyspray Jet 790 XS
45	Valtech Corporation	Valtron SP 2700 KB
44	Alconox Inc	Alcojet
44	Buckeye International	Shopmaster HP
44	Ensolve Biosystems Inc	Grease Feast Plus
44	Heatbath Corporation	Multi-Kleen 1568
44	Heatbath Corporation	MultiKleen LX 1573
44	Hurri Kleen	Parts Washer Degreaser
44	Kleer Flo Company	Grease Off 2
44	Magnaflux	Daraclean 211
44	Oakite Products	Fisan Versaclean
44	Oakite Products	Inproclean 2000
44	Simple Green	All Purpose Cleaner/ Degreaser
44	Simple Green	Simple Green D
44	SOQ Environmental Technology	Ecomate FN
44	United Laboratories	United 2002 Harvest Gold
44	US Polychem Corporation	Polychem DEOX 007
44	US Polychem Corporation	Polychem Ultra CR
43	Alconox Inc	Det-O-Jet
43	Alconox Inc	Luminox
43	CRC Industries	Complex Blue
43		Keynote

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	Drummond American	
43	Ecolink	Rip Tide
43	Emkay Chemical Company	Safety Wash CRC
43	Finger Lakes Chemicals	Safer Stuff
43	Hurri Kleen	Hot Immersion Degreaser
43	International Products Corporation	LF 2100
43	MacDermid	ND LF Supreme
43	Magnaflux	Daraclean 212
43	Mirachem Corporation	Mirachem 250
43	PCI of America	Hurrisafe 9575
43	Safe Science	Safe Science All Purpose (Industrial)
43	Watson Technical Associates	Watson Formula 7300
42	Baum's Castorine Company Inc	EZE Oil-Grease Cleaner
42	Brulin Corporation	Formula 815 GD
42	Buckeye International	Shopmaster FF
42	By*Pas & Star Cleaning Products	Star Cleaning Miracle # 50
42	Ecolink	Heavy Weight Non Butyl Detergent
42	Emkay Chemical Company	Safety Wash
42	Emkay Chemical Company	Safety Wash Clear
42	Jet Lube Inc	Jet Lube 5000
42	Oakite Products	Inproclean 3800
42	Oakite Products	Inproclean 61 B
42	Pentone Corporation	Citrikleen XPC
42	Pride International Inc	Citrisolv Plus
42	Safe Science	Safe Science Concrete/ Graffiti (Industrial)
42	Tower Products Inc	Tower 270 Cleaner Concentrate
42	Watson Technical Associates	Watson Formula 9001CP
41	Brulin Corporation	Natural Sol 100
41	CRC Industries	HydroForce Butyl Free All Purpose
41	Delta Omega Technologies Ltd	Attar D(R3)
41	Diversey	Twist

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41	Diversey Corp	Jettacin
41	Environmental Technology	RB Degreaser Cleaner
41	Heatbath Corporation	Uni Kleen 10
41	Magnaflux	Daraguard 412
41	Mirachem Corporation	Mirachem 500
41	Permatex Industrial Corporation	Natural Blue
40	Alconox Inc	Detergent 8
40	Drummond American	Clout
40	Prisco Printers Service	PES 320
40	Valtech Corporation	Valtron SP 2200
40	Valtech Corporation	Valtron SP 2250 2LF
39	Abatement Technology	Bio Might 100
39	Ardrox	6333
39	AW Chesterton	217 Pressure wash
39	Bio Chem Systems	Bio T 200 A
39	Bio Chem Systems	Green Stuff (6325)
39	By*Pas & Star Cleaning Products	By*Pas #1500
39	Chemstation	Green Stuff Neutral
39	Ecolink	Universal Steam Cleaner
39	Magnaflux	Daraclean 232
39	Oakite Products	Inproclean 4000 T
39	Tomah Products	Tomadyne 101 LF
39	US Polychem Corporation	Polychem PW 147
39	US Polychem Corporation	Polyspray Jet 790 C
39	Vertec BioSolvents	VertecBio Gold 2
38	Cleaning Systems	Release
38	Du Pont	DBE 3
38	Eastern Color & Chemical Company	Ecobrite Cleaner AK
38	EPI	E Kleen 196 A
38	Magnaflux	Daraclean 200
38	Magnaflux	Daraclean 283
38	Matchless Metal Polish Company	MC 132
38	Nensco Supply	USA Wash
38	Solvent Kleene Inc	D Greeze 500 LO
38	Today & Beyond	Beyond 2001
38	Today & Beyond	Beyond 2002
38	Today & Beyond	Beyond 2003

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38	Today & Beyond	Beyond 2005
37	AW Chesterton	278 Super Solv
37	Bio Chem Systems	Bio T 300 B
37	Bio Chem Systems	Bio T Max
37	Bio Chem Systems	Bio T Parts Washer NR
37	Bio Chem Systems	Solsafe 245
37	Bush Boake Allen Inc	BBA Solvent K312
37	Dow Chemical Company	PnB Glycol Ether
37	Dow Chemical Company	XUS 40570 Development Solvent
37	Dow Chemical Company	XUS 40571 Development Solvent
37	Dow Chemical Company	XUS 40579 Development Solvent
37	Dynamold Solvents Inc	DS 104
37	Dynamold Solvents Inc	DS 108
37	Ecolink	VG 151
37	Ecolink	Vortex
37	Florida Chemical Company	Citrus Burst 7
37	Florida Chemical Company	D-Limonene
37	Inland Technologies Inc	Citrasafe
37	LPS Laboratories	LPS Precision Clean
37	MacDermid	ND 17
37	MacDermid	ND Supreme
37	Magnaflux	Daraclean 282 GF
37	Master Chemical Corporation	Trim Rinse 100
37	National Diagnostic	Histo Clear
37	National Diagnostic	Opti Clear
37	Safety Kleen Corporation	Premium Gold
37	SWR Corporation	SWR One
37	Tarksol Inc	Tarksol HTF 60
37	Tarksol Inc	Tarksol HTF-50
37	Today & Beyond	Beyond 2004
37	Today & Beyond	Beyond 2009
37	U.S. Polychem Corporation	87 RB
37	US Polychem Corporation	Hydropurge 36
37	ZEP Manufacturing Company	Dyna 143
36	Betz Laboratories Inc	Custom Clean N CC 2278

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36	General Chemical Corporation	Aluminex 5761
36	Hotsy Cleaning Systems	Tubmate All Purpose
36	Man Gill Chemical	Gillite 160 X
36	Tech Spray	Concentrated Aqueous Defluxer
36	Today & Beyond	Beyond 2006
35	Calgon Corporation	AK 6215
35	DA Stuart Company	Dasco Kleen 3250
35	Ecolink	Positron
35	Man Gill Chemical	Gillite 0650 Cl
35	OCS System	# NFH2002
34	Bio Chem Systems	Bio T Foam Plus
34	Calgon Corporation	SMS 206 K
34	Diversey	Gangbusters
34	Magnaflux	Daraclean 282
33	Ecolink	Bulldog
32	General Chemical Corporation	Aluminex 5834
32	Hubbard Hall Inc	Aquaease PL 110
32	Oakite Products	Okemclean
31	AJ Associates	Dynadet
31	Oakite Products	Oakite 77
31	Oakite Products	Oakite Low Heat Cleaner 1
31	Quaker Chemical	Formula 625 XL
31	Watson Technical Associates	Watson Formula 7000
30	Sterling	Mineral Spirits
29	AW Chesterton	803 Industrial & Marine Solvent II
28	AGA Chemical	AK 225
27	Calgon Corporation	Geo Guard 2215

Summary:

Substrates:	Carbon Steel, Steel, Lead				
Contaminants:	Greases, Lubricating/Lapping Oils, Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
No Specific Vendor	Supplied alternatives list		0.00	☑	

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, please contact the lab at (978)934-3133.