CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1999

DateRun: 05/25/1999

Experimenters: Jason Marshall

ClientType: State Agency

ProjectNumber: Project #1

Substrates: Carbon Steel, Stainless Steel

PartType: Coupon

Contaminants: Cutting/Tapping Fluids, Greases, Lubricating/Lapping Oils, Dirt, Oil

Cleaning Methods:

Analytical Methods:

Purpose: Information request.

Experimental Procedure: SUBSTRATE MATERIAL: Carbon & Stainless Steel
QUESTION ASKED: Looking for low cost, non-hazardous, non-exposure concern effective cleaner for the removal of oil, grease and dirt from bearings, gears, housing, etc. A literature search may be sufficient.

Results: RESPONSE/ANSWER: The Massachusetts Toxics Use Reduction Institute (TURI) has made the results of the tests conducted at the Institute's Surface Cleaning Laboratory (SCL) into a searchable database/ spreadsheet format. This should make alternative cleaner selection faster and easier. Here are the results of your query, based on the information supplied:

SCL #	Substrate	Contaminant	Process	Manufacturer	Product
95-410-01-2	SS	OIL	ULTRASONICS	WR GRACE	DARACLEAN 283
95-410-03-2	SS	OIL	SPRAY	AW CHESTERTON	KPC 820 N
96-425-01-2	SS	GREASE	IMMERSION	SAFETY KLEENE	GREEN SOLVENT
96-425-01-2	SS	GREASE	IMMERSION	SAFETY KLEENE	GREEN SOLVENT
96-425-01-2	SS	GREASE	IMMERSION	TWIN RIVER	ESTER
96-425-01-2	SS	OIL	IMMERSION	BUCKEYE	SHOPMASTER
96-425-01-2	SS	OIL	IMMERSION	SAFETY KLEENE	GREEN SOLVENT
96-425-01-2	SS	OIL	IMMERSION	SAFETY KLEENE	GREEN SOLVENT
96-425-01-2	SS	OIL	IMMERSION	T-SQUARE	HTF 10 B
96-449-02-2	SS	OIL	IMMERSION	ARDROX	6333
96-449-02-2	SS	OIL	IMMERSION	BRULIN	815 GD
96-449-02-2	SS	OIL	IMMERSION	CALGON	AK 6215
97-538-07-3	SS	DIRT	IMMERSION	ECOLINK	VORTEX
97-538-07-3	SS	DIRT	IMMERSION	OAKITE	INPROCLEAN 4000 T
97-538-07-3	SS	DIRT	IMMERSION	SOLVENT KLEENE	D-GREEZE 500
97-538-07-3	SS	GREASE	IMMERSION	ECOLINK	VORTEX
97-538-07-3	SS	GREASE	IMMERSION	OAKITE	INPROCLEAN 4000 T
97-538-07-3	SS	GREASE	IMMERSION	SOLVENT KLEENE	D-GREEZE 500
97-538-07-3	SS	OIL	IMMERSION	ECOLINK	VORTEX
97-538-07-3	SS	OIL	IMMERSION	OAKITE	INPROCLEAN 4000 T
97-538-07-3	SS	OIL	IMMERSION	SOLVENT KLEENE	D-GREEZE 500
97-540-03-2	SS	OIL	ULTRASONICS	WR GRACE	DARACLEAN 282
97-547-01-2	SS	OIL	IMMERSION	FINE ORGANICS	FO2085 M

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97-547-01-2	SS	OIL	IMMERSION	WR GRACE	DARACLEAN 282 GF
97-548-04-2	SS	GREASE	SPRAY	ALCONOX	ALCOJET
97-549-01-2	SS	OIL	ULTRASONICS	CHURCH &DWIGHT	CHURCH & DWIGHT
97-549-01-2	SS	OIL	ULTRASONICS	MACDERMID	ND 17
97-549-01-2	SS	OIL	ULTRASONICS	OAKITE	INPROCLEAN 3800
97-549-01-2	SS	OIL	ULTRASONICS	WR GRACE	DARACLEAN 212
98-540-04-4	SS	OIL	ULTRASONICS	WR GRACE	DARACLEAN 282
94-466-01-8	CARBON STEEL	OIL	SPRAY	WR GRACE	DARACLEAN 283
97-547-02-2	SS	OIL	ULTRASONICS	FINE ORGANICS	FO2085 M
97-547-02-2	SS	OIL	ULTRASONICS	WR GRACE	DARACLEAN 282 GF
97-547-03-4	SS	OIL	ULTRASONICS	WR GRACE	DARACLEAN 282 GF
97-547-04-4	SS	OIL	ULTRASONICS	WR GRACE	DARAGUARD 416
97-547-04-4	SS	OIL	ULTRASONICS	WR GRACE	DARACLEAN 282 GF
97-549-02-4	SS	OIL	ULTRASONICS	MACDERMID	ND 17
99-695-03-3	SS	OIL	SPRAY	US POLYCHEM	POLYSPRAY 790 P
99-692-02-2	CARBON STEEL	OIL	IMMERSION	TWIN RIVERS	METHYL ESTER 1618
99-692-02-2	CARBON STEEL	OIL	IMMERSION	SOLVENT KLEENE	D-GREEZE 500
99-692-02-2	CARBON STEEL	OIL	IMMERSION	OAKITE	INPROCLEAN 4000 T
99-692-02-2	CARBON STEEL	OIL	IMMERISON	ECOLINK	VORTEX
99-692-02-2	SS	OIL	IMMERSION	TWIN RIVERS	METHYL ESTER 1618
99-692-02-2	SS	OIL	IMMERSION	SOLVENT KLEENE	D-GREEZE 500
99-692-02-2	SS	OIL	IMMERSION	OAKITE	INPROCLEAN 4000 T
99-692-02-2	SS	OIL	IMMERSION	ECOLINK	VORTEX
99-6100-02-2	SS	OIL	IMMERSION	BRANSON	GP
99-6100-02-2	SS	OIL	IMMERSION	MATCHLESS	MC 580
99-6100-02-2	SS	OIL	IMMERSION	OAKITE	INPROCLEAN 3800
99-6100-02-2	SS	OIL	IMMERSOIN	WARREN CHEMICAL	SEA-WASH DISPERSANT
99-6100-02-2	SS	OIL	IMMERSION	GEMTEK	SC AIRCRAFT & METAL CLEANER
99-6100-02-2	SS	OIL	IMMERSION	SAVOGRAN	DIRTEX PREPAINT CLEANER
99-6100-02-2	SS	OIL	IMMERSION	WATER	WATER
99-6100-03-4	SS	OIL	IMMERSION	WARREN CHEMICAL	Sea-Wash Dispersant
99-6100-03-4	SS	OIL	IMMERSION	WARREN CHEMICAL	Sea-Wash Dispersant
99-6100-03-4	SS	OIL	IMMERSION	MATCHLESS	MC 580
99-6100-03-4	SS	OIL	IMMERSION	MATCHLESS	MC 580
99-6100-05-4	SS	OIL	IMMERSION	BRULIN	815 GD
99-6100-05-4	SS	OIL	IMMERSION	BRULIN	815 GD
99-6100-05-4	SS	OIL	IMMERSION	BRULIN	815 GD

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A second search was conducted using information supplied by the vendors. This list includes information about what the product was designed to be used for.

Company Name:	Product Trade Name:	Classification:
AG Environmental	Soy Gold 1000	Soy Methyl Ester
Alconox	Detergent - 8	Alkaline aqueous
AW Chesterton	803 & Ind. Marine Solvent - II	Alkaline aqueous
Brulin	Compliance	Alkaline Aqueous
Buckeye International	Shopmaster	Alkaline Aqueous
Calgon Corporation	SC 431	Organic
Calgon Corporation	SC844	Organic
Calgon Corporation	SMS 206 K	Alkaline Aqueous
Calgon Corporation	SMS 9706	Alkaline Aqueous
Chemstation	Greenstuff II	Alkaline Aqueous
Chemstation	Greenstuff Neutral	Aqueous
CSA Inc	Bio-Safe 1024	Alkylene carbon Compound
Ecolink	Vortex	Semi-Aqueous Terpene
Envirosolutions	BIO-T Max	Semi-Aqueous Terpene
Finger Lakes	1/1/02	Tarksol 97 Solvent
Frederick Gumm Chemical	Clepo 228 D paint stripper	Caustic Aqueous
Gemtek Products	SC 1000	Non-ionic Surfactant System
Gemtek Products	SC AIRCRAFT & METAL CLEANER	Alkaline Aqueous
Gemtek Products	SC Supersolve	Organic
Inland Techndogies Inc	Teksol	D-Limonene Solvent
Inland Technology Inc	EP 921	D-Limonene Solvent
Intemational Products Corporation	MICRO 90	Alkaline Aqueous
MacDermid	ND 17	Alkaline Aqueous
Man-Gill Chemical	Gillite 0650 Cl	Alkaline Aqueous
Mirachem Corporation	Mirachem 500	Alkaline Aqueous
Oakite Products	InproClean 1300	Alkaline Aqueous
Oakite Products	InproClean 2500	Alkaline Powder
Oakite Products	InproClean 3800	Alkaline Aqueous
Oakite Products	InproClean 4000 T	Semi-Aqueous Terpene
Oakite Products	Oakite 61 B	Alkaline Powder
Savogran	Dirtex Prepaint Cleaner	Alkaline Aqueous
Savogran	HD 34	Semi-Aqueous
Savogran	Safety-Solve	Di-Methyl Ester
Savogran	Sl#8 Coating Remover	Alcohol
Sky Products Co	Cleaner #10	Alkaline Aqueous
Solvent Kleene	D-Greeze 500	Hydrocarbon Solvent
Star Cleaning Miracle Inc	Star Cleaning Miracle #50	Alkaline Aqueous
T-Square	HTF 50	Semi-Aqueous Terpene
T-Square	HTF 60	Semi-Aqueous Terpene
US Polychem	De-Ox 007	Alkaline Aqueous
US Polychem	Polyspray Jet 790 XS	Alkaline Aqueous
Watson Technical Associates	Formula 7300	Alkaline Aqueous
Watson Technical Associates	Formula 9000	Alkaline Aqueous

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WR Grace	Daraclean200	Alkaline Aqueous
WR Grace	Daradean 212	Alkaline Aqueous
WR Grace	Daraclean 232	Alkaline Aqueous
WR Grace	Daraclean 235	Alkaline Aqueous
WR Grace	Daraclean 282	Alkaline Aqueous
WR Grace	Daraclean 282 GF	Alkaline Aqueous
WR Grace	Daraclean 283	Alkaline Aqueous
WR Grace	Daraclean 294 XX	Semi-aqueous Alcohol

Summary:

Conclusion: Cleaning projects vary from case-to-case. To obtain more detailed information about any of the listed trials, have the SCL # ready when contacting the lab at (978)934-3133.