CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 04/10/2002

Experimenters: Jason Marshall

ClientType: State Agency

ProjectNumber: Project #1

Substrates: Alloys, Aluminum, Brass, Carbon Steel, Stainless Steel, Steel

PartType: Coupon

Contaminants: Paints

Cleaning Methods:

Analytical Methods:

Purpose: To identify alternatives to chlorinated solvents for paint removal from gaskets

Experimental Procedure: Using SSL's Simple Solutions database, two lists of products were generated based on client input. The first list contains products that have been evaluated in the lab for paint removal. The equipment and substrates may not be the same as the client requested materials.

Results: Lab Evaluated

CompanyName	ProductName	Classification	Efficiency	Observations	Substrate	Equipment
AG Environmental Products	Soy Gold 1000	Organic	87		Aluminum	Immersion/ Soak
AG Environmental Products	Soy Gold 2000	Organic	90.21		Aluminum	Immersion/ Soak
AG Environmental Products	Soy Gold 2000	Organic	86.28		Aluminum	Immersion/ Soak
AG Environmental Products	Soy Gold 2000	Organic			Aluminum	Immersion/ Soak
Armex	Sodium Bicarbonate	Blasting			Stainless Steel	Media Blasting
Armex	Sodium Bicarbonate	Blasting			Brass	Media Blasting
AW Chesterton	181 Low Alkaline Cleaner	Alkaline Aqueous	99.08		Stainless Steel	Immersion/ Soak
AW Chesterton	181 Low Alkaline Cleaner	Alkaline Aqueous	99.83		Stainless Steel	Ultrasonics
Bio Chem Systems	Bio T Max	Terpene	4	Rank	Brass	Immersion/ Soak
Bio Chem Systems	Bio T Max	Semi-Aqueous	4	Rank	Brass	Immersion/ Soak
Brulin Corporation	Natural Sol 100	Alkaline Aqueous	93.3		Stainless Steel	Immersion/ Soak
Buckeye International	Shopmaster RC	Ester	2	Rank	Brass	Immersion/ Soak
Calgon Corporation	GP Xtra	Alkaline Aqueous	96.98		Stainless Steel	Immersion/ Soak
Chrisal USA, Inc.	Super CMF 240	Alkaline Aqueous	74		Aluminum	Immersion/ Soak
Du Pont	DBE 4	Ester	89.3		Aluminum	Immersion/ Soak
Ecolink	Safe Strip	Organic	1	Rank	Brass	Ultrasonics
Gemtek Products	SC Supersolve	Organic	3	Rank	Brass	Immersion/ Soak
Gemtek Products	SC Supersolve	Organic		some brightening	Brass	Ultrasonics

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Oakite Products	Inproclean 4000 T	Terpene		no brightening	Brass	Ultrasonics
Oakite Products	Inproclean 4000 T	Organic		no brightening	Brass	Ultrasonics
Simple Green	Crystal Simple Green	Alkaline Aqueous	99.66		Stainless Steel	Ultrasonics
Solvent Kleene, Inc.	D-Greeze 500 LO	Organic	93.77		Aluminum	Immersion/ Soak
Solvent Kleene, Inc.	D-Greeze 500 LO	Organic			Aluminum	Immersion/ Soak
Today & Beyond	Beyond-2003	Alkaline Aqueous	8	Rank	Brass	Immersion/ Soak
Twin Rivers Corp	Methyl Ester 1618	Ester	87.8		Aluminum	Immersion/ Soak
U.S. Polychem Corp.	Polyspray Jet 790 XS	Alkaline Aqueous	5	Rank	Brass	Immersion/ Soak

Vendor Recommended

CompanyName	ProductName	Classification
Gemtek Products	SC Supersolve	Organic
Today & Beyond	Beyond-2001	Alkaline Aqueous
Today & Beyond	Beyond-2004	Alkaline Aqueous
Today & Beyond	Beyond-2005	Alkaline Aqueous
Buckeye International	Shopmaster LPH	Alkaline Aqueous
Hazwell International	Biosolve	Neutral Aqueous
Westford Chemical Corporation	Biosolve	Neutral Aqueous
Buckeye International	Shopmaster	Alkaline Aqueous
Bio Chem Systems	SOLSAFE 245	Petroleum Distillate
Hotsy Cleaning Systems	Hotsy Detergents Tub & Pressure Wash	Alkaline Aqueous
Safe Science	Safe Science Concrete/ Graffiti	Alkaline Aqueous
Today & Beyond	Beyond-2002	Alkaline Aqueous
Today & Beyond	Beyond-2003	Alkaline Aqueous
Today & Beyond	Beyond-2006	Alkaline Aqueous
U.S. Polychem Corp.	Hydropurge 36	Alkaline Aqueous
U.S. Polychem Corp.	Polychem Acra Strip 600	Semi-Aqueous
U.S. Polychem Corp.	Polychem Hydropurge 21	Alkaline Aqueous
U.S. Polychem Corp.	Polychem Hydropurge XS-790	Alkaline Aqueous
U.S. Polychem Corp.	Polychem RCC-25	Petroleum Distillate
U.S. Polychem Corp.	Polychem RCC-25	Terpene
U.S. Polychem Corp.	Polyspray Jet 790 P	Alkaline Aqueous
U.S. Polychem Corp.	Polyspray Jet 790 XS	Alkaline Aqueous
U.S. Polychem Corp.	Polyspray Jet ST-21	Alkaline Aqueous
Ecolink	Safe Strip	Organic
Tarksol, Inc.	Tarksol NPB	Organic

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Inland Technologies Inc	EP 921	Organic
U.S. Polychem Corp.	Polychem 2000 P	Alkaline Aqueous
U.S. Polychem Corp.	Polychem A 2000 XS	Alkaline Aqueous
U.S. Polychem Corp.	Polychem DE-144	Petroleum Distillate
U.S. Polychem Corp.	Polychem DEOX 007	Alkaline Aqueous
U.S. Polychem Corp.	Polychem Hydropurge 36 XS	Alkaline Aqueous
U.S. Polychem Corp.	Polychem QS-85 LO	Petroleum Distillate
U.S. Polychem Corp.	Polychem QS-85 LO	Terpene
AGA Chemical	AK 225	HCFC
General Chemical Corporation	Aquaclean 4784	Caustic
ISP Technologies	N Methyl Pyrrolidone	Organic
Kyzen Corporation	Misprint Stencil Remover	Hydrocarbon
Buckeye International	Shopmaster RC	Ester
Inland Technologies Inc	Citrasafe	Terpene
ISP Technologies	Ship Shape Resin Cleaner	Organic
Safe Science	Safe Science Engine Degreaser	Terpene
Chemtronics	Super Bio Wash	Semi-Aqueous
Dynamold Solvents, Inc.	DS-801	Alkaline Aqueous
International Products Corp	Surface Cleanse 930	Neutral Aqueous
Purac America, Inc.	Purasolv Els	Organic
Savogran	HD-34 Cleaner Degreaser	Semi-Aqueous
Soy Envrinonmental Products, Inc.	Soy Clean	Organic
Drummond American	Clout	Semi-Aqueous
Eastern Color and Chemical Co	Ecobrite Cleaner AK	Alkaline Aqueous
New Pig Corporation	New Pig Degreaser	Semi-Aqueous
New Pig Corporation	New Pig Degreaser	Terpene
U.S. Polychem Corp.	Polyspray Jet 790 C	Caustic
Environmental Services	TASC	Alkaline Aqueous
Mirachem Corporation	Mirachem 250	Acidic Aqueous
Oakite Products	Inproclean 4000 T	Organic
Oakite Products	Inproclean 4000 T	Terpene
Tarksol, Inc.	Tarksol HTF-10 B	Terpene
Finger Lakes Chemicals	1-1-02	Terpene
U.S. Polychem Corp.	Hydropurge HPL 790	Caustic
U.S. Polychem Corp.	Product 69 MC	Alcohol
Tarksol, Inc.	Tarksol Polystrip	Alcohol
Tarksol, Inc.	Tarksol Polystrip	Organic
Accurate Manufactured Products	Safety Layout Blue Remover	Terpene
AW Chesterton	278 Super Solv	Petroleum Distillate
Bio Chem Systems	Bio T Foam Plus	Terpene
Florida Chemical Co	D-Limonene	Terpene
General Chemical Corporation	Aluminex 5834	Alkaline Aqueous
Savogran	Safety-Solve	Organic
Tarksol, Inc.	Tarksol HTF-85 B	Alcohol
Tarksol, Inc.	Tarksol HTF-85 B	Organic
Tarksol, Inc.	Tarksol HTF-90	Alcohol

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Tarksol, Inc.	Tarksol HTF-90	Organic
Twin Rivers Corp	Methyl Ester 1618	Ester
Warren Chemical Co	Sea Wash Cleaner	Alkaline Aqueous
Bush Boake Allen Inc	BBA Solvent K312	Terpene
Tarksol, Inc.	Tarksol HTF-60	Terpene

Summary:

Conclusion: Cleaning projects vary from case-to-case. To obtain more detailed information about any of the products listed, contact the lab at (978)934-3133.