

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1999
 DateRun: 06/08/1999
 Experimenters: Jason Marshall
 ClientType: Consultant
 ProjectNumber: Project #1
 Substrates: Other
 PartType: Coupon
 Contaminants:
 Cleaning Methods: Vapor Degreasing
 Analytical Methods:

Purpose: Information request for vapor degreasing alternatives.

Experimental Procedure: SUBSTRATE MATERIAL: Any
 QUESTION ASKED: Working with a client to eliminate methylene chloride in a vapor cleaning operation. One offering is Propyl Bromide and another is Hydrofluoro Ethers. Have you any experience with these? Any other suggestions?

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.

Products used to replace methylene chloride in cleaning operations:

| SCL # | Cleaner Mfr | Cleaning Chem |
|--------------|--------------------------|-------------------------|
| 95-413-02-2C | Oakite Products | Inproclean 3800 |
| 95-413-02-2C | Cleaning Systems | Release |
| 95-413-02-2C | Calgon Corp | Geo-Guard 2215 |
| 95-413-02-2C | WR Grace | Daraclean 283 |
| 95-413-02-2C | Brulin | 815 GD |
| 95-467-01-8 | Oakite Products | Inproclean 2500 |
| 95-467-01-8 | WR Grace | Daraclean 282 GF |
| 95-467-01-8 | Brulin | 63-G |
| 95-467-01-8 | Brulin | 815 GD |
| 96-418-02-2 | Ecolink | 2005 |
| 96-418-02-2 | ISP Tech | N-Methyl 2-Pyrrolidone |
| 96-422-01-2 | Delta Omega Technologies | DOT 111-113 |
| 96-422-01-2 | Mix | Rochester Midland Split |
| 96-422-01-2 | Delta Omega Technologies | DOT 111-113 |
| 96-422-01-2 | Mix | Rochester Midland Split |
| 96-426-01-2* | Armex | Sodium Bicarbonate |
| 98-522-02-1 | Buckeye | Shopmaster |
| 98-522-02-1 | Safe CleanUp | Super Neutral |
| 98-522-02-1 | Buckeye | Shopmaster |
| 98-522-02-1 | Safe CleanUp | Super Neutral |
| 98-522-03-1 | Fingerlakes Chemical | Resineater |
| 98-522-03-1 | | Resineater |

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|--------------|----------------------|---------------------------|
| | Fingerlakes Chemical | |
| 98-622-04-2 | T-Square | HTF 50 |
| 98-622-04-2 | Gemtek Products | SC 1000 |
| 98-622-04-2 | WR Grace | Daraclean 232 |
| 98-622-04-2 | Chrisal USA | Super CMF 240 |
| 98-622-04-2 | T-Square | HTF 50 |
| 98-622-04-2 | Gemtek Products | SC 1000 |
| 98-622-04-2 | WR Grace | Daraclean 232 |
| 98-622-04-2 | Chrisal USA | Super CMF 240 |
| 98-622-05-2 | WR Grace | Daraclean 232 |
| 98-622-05-2 | Gemtek Products | SC 1000 |
| 98-622-05-2 | WR Grace | Daraclean 232 |
| 98-622-05-2 | Gemtek Products | SC 1000 |
| 99-6102-01-2 | Oakite Products | Inproclean 3800 |
| 99-6102-01-2 | US Polychem | Polyspray Jet 790 P |
| 99-622-07-1 | Savogran | SI NO 4 |
| 99-622-07-1 | Savogran | SI NO 8 |
| 99-622-07-1 | Savogran | SI NO 4 |
| 99-622-07-1 | Savogran | SI NO 8 |
| 99-622-08-1 | Savogran | HD 34 |
| 99-622-08-1 | Savogran | HD 34 |
| 99-622-09-2 | Savogran | HD 34 |
| 99-622-09-2 | Gemtek Products | SC Supersolve |
| 99-622-09-2 | Savogran | HD 34 |
| 99-622-09-2 | Gemtek Products | SC Supersolve |
| 99-622-10-4 | Gemtek Products | SC Supersolve |
| 99-622-10-4 | Gemtek Products | SC Supersolve |
| 99-6102-02-4 | Calgon Corp | Geo-Guard 2215 |
| 99-6102-02-4 | Gemtek Products | SC Aircraft Metal Cleaner |
| 99-6102-02-4 | SWR Corp | SWR One |
| 99-6102-02-4 | WR Grace | Daraclean 282 GF |
| 99-6102-02-4 | US Polychem | Polyspray Jet 790 P |
| 99-6102-03-4 | US Polychem | Polyspray Jet 790 P |
| 99-6102-03-4 | Gemtek Products | SC Aircraft Metal Cleaner |
| 99-6102-03-4 | Calgon Corp | Geo-Guard 2215 |
| 99-622-11-2 | AG Environmental | Soy Gold 2000 |
| 99-622-11-2 | Envirosolutions | Solsafe 245 |
| 99-622-11-2 | Savogran | SI NO 4 |
| 99-622-11-2 | AG Environmental | Soy Gold 2000 |
| 99-622-11-2 | Envirosolutions | Solsafe 245 |
| 99-622-11-2 | Savogran | SI NO 4 |

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.