

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 04/08/2002

Experimenters: Jason Marshall

ClientType: Metal

ProjectNumber: Project #1

Substrates: Other

PartType: Coupon

Contaminants: Mold Releases

Cleaning Methods:

Analytical Methods:

Purpose: To identify possible cleaners for silicone cleaning from molds

Experimental Procedure: Using the laboratory database of past testing and vendor supplied information, two lists were generated based on the specific client information. Vendor Recommended Products for Silicone Removal

Results: Effectively Evaluated Products for Silicone Cleaning at SSL

| CompanyName                     | ProductName                | Classification   | Efficiency |
|---------------------------------|----------------------------|------------------|------------|
| Armex                           | Sodium Bicarbonate         | Blasting         |            |
| Bulrin Corporation              | Compliance                 | Caustic          | 98.7       |
| Buckeye International           | Shopmaster                 | Alkaline Aqueous | 89.9       |
| Buckeye International           | Shopmaster LPH             | Alkaline Aqueous |            |
| By*Pas & Star Cleaning Products | Star Cleaning Miracle # 50 | Alkaline Aqueous | 96.6       |
| MacDermid                       | ND LF Supreme              | Alkaline Aqueous |            |
| Simple Green                    | Simple GreenD              | Alkaline Aqueous | 98.5       |
| Sky Products Co., Inc.          | Cleaner #10                | Alkaline Aqueous | 85.9       |
| Today & Beyond                  | Beyond-2006                | Alkaline Aqueous | 98.08      |
| W.R. Grace & Co.                | Daraclean 283              | Alkaline Aqueous | 97.8       |

| CompanyName                  | ProductName        | Classification   |
|------------------------------|--------------------|------------------|
| AG Environmental Products    | Soy Gold 1000      | Organic          |
| AG Environmental Products    | Soy Gold 2000      | Organic          |
| AJ Associates                | Dynadet            | Alkaline Aqueous |
| AJ Associates                | Dynadet            | Caustic          |
| AJ Associates                | Gardoclean A5502   | Alkaline Aqueous |
| AJ Associates                | Gardoclean A5503   | Alkaline Aqueous |
| Albemarle Corp               | Abzol Cleaners     | Organic          |
| Alconox, Inc.                | Alconox            | Powder Detergent |
| Applied Surface Technologies | CO2 Snow Jet       | Powder Detergent |
| Armex                        | Sodium Bicarbonate | Blasting         |

## CLEANING LABORATORY EVALUATION SUMMARY

|                             |                                   |                      |
|-----------------------------|-----------------------------------|----------------------|
| AW Chesterton               | 278 Super Solv                    | Petroleum Distillate |
| Bio Chem Systems            | Bio T 200 A                       | Terpene              |
| Bio Chem Systems            | Bio T Max                         | Semi-Aqueous         |
| Bio Chem Systems            | Bio T Max                         | Terpene              |
| Bio Chem Systems            | Green Stuff (6325)                | Alkaline Aqueous     |
| Bio Chem Systems            | Neutral Green (8020)              | Alkaline Aqueous     |
| Bio Chem Systems            | SOLSAFE 245                       | Petroleum Distillate |
| Blue Wave Ultrasonics, Inc. | 25 I Detergent Concentrate        | Neutral Aqueous      |
| Blue Wave Ultrasonics, Inc. | Dirl-Lum 603 Powdered Detergent   | Alkaline Aqueous     |
| Blue Wave Ultrasonics, Inc. | Dirl-Lum 603 Powdered Detergent   | Powder Detergent     |
| Blue Wave Ultrasonics, Inc. | Dirl-Strip 606 Powdered Detergent | Caustic              |
| Blue Wave Ultrasonics, Inc. | Dirl-Strip 606 Powdered Detergent | Powder Detergent     |
| Bo Chem Co                  | T 110                             | Alkaline Aqueous     |
| Broco Products Inc.         | Broco OC-HDD                      | Powder Detergent     |
| Brulin Corporation          | EXP 1400                          | Alkaline Aqueous     |
| Buckeye International       | Shopmaster                        | Alkaline Aqueous     |
| Buckeye International       | Shopmaster FF                     | Alkaline Aqueous     |
| Buckeye International       | Shopmaster LPH                    | Alkaline Aqueous     |
| Calgon Corporation          | SMS 206 K                         | Alkaline Aqueous     |
| Calgon Corporation          | SMS 9706                          | Alkaline Aqueous     |
| Chrisal USA, Inc.           | Super CMF 240                     | Alkaline Aqueous     |
| Dynamold Solvents, Inc.     | DS-104                            | Petroleum Distillate |
| Dynamold Solvents, Inc.     | DS-108                            | Petroleum Distillate |
| Dynamold Solvents, Inc.     | DS-801                            | Alkaline Aqueous     |
| Ecolink                     | Pinnacle                          | Neutral Aqueous      |
| EMKAY Chemical Co           | Safety Wash                       | Alkaline Aqueous     |
| EMKAY Chemical Co           | Safety Wash Clear                 | Alkaline Aqueous     |
| EMKAY Chemical Co           | Safety Wash CRC                   | Alkaline Aqueous     |
| Florida Chemical Co         | D-Limonene                        | Terpene              |
| Gemtek Products             | SC Supersolve                     | Organic              |

## CLEANING LABORATORY EVALUATION SUMMARY

|                         |  |                      |
|-------------------------|--|----------------------|
| Hotsy Cleaning Systems  | Hotsy Detergents Tub & Pressure Wash         | Alkaline Aqueous     |
| Kyzen Corporation       | Optisolv 7152                                | Alkaline Aqueous     |
| Oakite Products         | Inproclean 4000 T                            | Organic              |
| Oakite Products         | Inproclean 4000 T                            | Terpene              |
| Purac America, Inc.     | Purasolv Els                                 | Organic              |
| Safe Science            | Safe Science Concrete/ Graffiti (Industrial) | Alkaline Aqueous     |
| Savogran                | Dirtex Prepaint Cleaner                      | Alkaline Aqueous     |
| Savogran                | HD-34 Cleaner Degreaser                      | Semi-Aqueous         |
| Savogran                | Safety-Solve                                 | Organic              |
| Simple Green            | All Purpose Cleaner/ Degreaser               | Alkaline Aqueous     |
| Simple Green            | Crystal Simple Green Industrial Cleaner      | Alkaline Aqueous     |
| Simple Green            | Hand Cleaner Gel                             | Terpene              |
| Simple Green            | Simple GreenD                                | Alkaline Aqueous     |
| Solvent Kleene, Inc.    | D-Greeze 1000                                | Petroleum Distillate |
| Solvent Kleene, Inc.    | D-Greeze 500 LO                              | Organic              |
| System One Technologies | QSOL-100                                     | Petroleum Distillate |
| System One Technologies | QSOL-110                                     | Petroleum Distillate |
| System One Technologies | QSOL-200                                     | Organic              |
| System One Technologies | QSOL-220                                     | Organic              |
| Tarksol, Inc.           | Tarksol Biosoy 60                            | Alcohol              |
| Tarksol, Inc.           | Tarksol Biosoy 60                            | Organic              |
| Tarksol, Inc.           | Tarksol HTF-40                               | Alcohol              |
| Tarksol, Inc.           | Tarksol HTF-40                               | Neutral Aqueous      |
| Tarksol, Inc.           | Tarksol HTF-40                               | Organic              |
| Tarksol, Inc.           | Tarksol NPB                                  | Organic              |
| Today & Beyond          | Beyond-2001                                  | Alkaline Aqueous     |
| Today & Beyond          | Beyond-2002                                  | Alkaline Aqueous     |
| Today & Beyond          | Beyond-2003                                  | Alkaline Aqueous     |
| Today & Beyond          | Beyond-2004                                  | Alkaline Aqueous     |
| Today & Beyond          | Beyond-2005                                  | Alkaline Aqueous     |
| Today & Beyond          | Beyond-2006                                  | Alkaline Aqueous     |

## CLEANING LABORATORY EVALUATION SUMMARY

|                     |                            |                      |
|---------------------|----------------------------|----------------------|
| U.S. Polychem Corp. | Hydropurge 36              | Alkaline Aqueous     |
| U.S. Polychem Corp. | Polychem 2000 P            | Alkaline Aqueous     |
| U.S. Polychem Corp. | Polychem A 2000 XS         | Alkaline Aqueous     |
| U.S. Polychem Corp. | Polychem Acra Strip 600    | Semi-Aqueous         |
| U.S. Polychem Corp. | Polychem Aquaspat Ti       | Neutral 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 21     | Alkaline Aqueous     |
| U.S. Polychem Corp. | Polychem Hydropurge 36 XS  | Alkaline Aqueous     |
| U.S. Polychem Corp. | Polychem Hydropurge XS-790 | Alkaline Aqueous     |
| U.S. Polychem Corp. | Polychem PW-147            | Alkaline Aqueous     |
| U.S. Polychem Corp. | Polychem QS-85 LO          | Petroleum Distillate |
| U.S. Polychem Corp. | Polychem QS-85 LO          | Terpene              |
| U.S. Polychem Corp. | Polychem RCC-25            | Petroleum Distillate |
| U.S. Polychem Corp. | Polychem RCC-25            | Terpene              |
| U.S. Polychem Corp. | Polychem Ultra-CR          | Alkaline Aqueous     |
| U.S. Polychem Corp. | Polyspray Jet 790 C        | Caustic              |
| 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     |
| Valtech Corporation | Valtron SP 2200            | Alkaline Aqueous     |
| Valtech Corporation | Valtron SP 2201            | Alkaline Aqueous     |
| Valtech Corporation | Valtron SP 2250-2LF        | Alkaline Aqueous     |
| Valtech Corporation | Valtron SP 2270            | Alkaline Aqueous     |
| Valtech Corporation | Valtron SP 2610            | Neutral Aqueous      |
| W.R. Grace & Co.    | Daraclean 200              | Alkaline Aqueous     |
| W.R. Grace & Co.    | Daraclean 203              | Caustic              |
| W.R. Grace & Co.    | Daraclean 212              | Neutral Aqueous      |
| W.R. Grace & Co.    | Daraclean 235              | Neutral Aqueous      |
| W.R. Grace & Co.    | Daraclean 236              | Neutral Aqueous      |
| W.R. Grace & Co.    | Daraclean 238              | Alkaline Aqueous     |
| W.R. Grace & Co.    | Daraclean 257              | Alkaline Aqueous     |

## CLEANING LABORATORY EVALUATION SUMMARY

|                  |                     |                     |
|------------------|---------------------|---------------------|
| W.R. Grace & Co. | Daraclean 282       | Alkaline<br>Aqueous |
| W.R. Grace & Co. | Daraclean 282<br>GF | Alkaline<br>Aqueous |
| W.R. Grace & Co. | Daraclean 283       | Alkaline<br>Aqueous |

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 or through email.