# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2000

DateRun: 02/24/2000

Experimenters: Jason Marshall

ClientType: City Government

ProjectNumber: Project #1

Substrates: Aluminum, Carbon Steel, Copper, Stainless Steel, Steel

PartType: Coupon

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

Cleaning Methods:

Analytical Methods:

Purpose: Information request

Experimental Procedure: SUBSTRATE MATERIAL: Metal
QUESTION ASKED: Would like a listing of cleaners that have been used for cleaning engine parts from DPW's and Highway Departments.

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 making alternative cleaner selection faster and easier. Here are the results of your query, based on the information supplied:

Products Evaluated for DPWs and Highway Depts.

| | | | | Efficiency of Removal(%) | | |
|---|---|---|---|---|---|---|
| SCL # | Cleaner Mfr | Cleaning Chem | Classification | Oil | Grease | Lubricant |
| 98-561-02-4 | ZEP Manufacturing Co | Dyna 143 | Hydrocarbon Solvent | 98 | | |
| 98-561-02-4 | Envirosolutions | SolSafe 245 | Alcohol-aliphatic hydrocarbons | 96 | | |
| 98-561-02-4 | Safe CleanUp | Super Neutral | Neutral Aqueous-Mircrobial | 91 | | |
| 98-561-02-4 | AG Environmental | Soy Gold 1000 | Soy Methyl Ester | 84 | | |
| 98-561-02-4 | WR Grace | Daraclean 282 | Alkaline Aqueous | 63 | | |
| 98-561-02-4 | WR Grace | Daraclean 232 | Alkaline Aqueous | 45 | | |
| 98-561-02-4 | Solvent Kleene | D-Greeze 500 | Hydrocarbon Solvent | 77 | | |
| 98-561-03-4 | WR Grace | Daraclean 282 | Alkaline Aqueous | 80 | | |
| 98-561-03-4 | WR Grace | Daraclean 232 | Alkaline Aqueous | 72 | | |
| 98-561-03-4 | Safe CleanUp | Super Neutral | Neutral Aqueous-Mircrobial | 90 | | |
| 98-561-04-4 | ZEP Manufacturing Co | Dyna 143 | Hydrocarbon Solvent | 100 | | |
| 98-561-04-4 | Safety Kleen | Premium Gold | Hydrocarbon Solvent | 100 | | |
| 98-561-04-4 | Envirosolutions | SolSafe 245 | Alcohol-aliphatic hydrocarbons | 96 | | |
| 98-561-04-4 | Safe CleanUp | Super Neutral | Neutral Aqueous-Mircrobial | 98 | | |

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|---|---|---|---|---|---|---|
| 98-561-04-4 | AG Environmental | Soy Gold 1000 | Soy Methyl Ester | 90 | | |
| 98-561-04-4 | WR Grace | Daraclean 282 | Alkaline Aqueous | 99 | | |
| 99-6103-02-2 | WR Grace | Daraclean 282 GF | Alkaline Aqueous | 81 | | |
| 99-6103-02-2 | EMKAY Chemical CO | Safety Wash | Alkaline Aqueous | 70 | | |
| 99-6103-02-2 | Safe CleanUp | Super Neutral | Neutral Aqueous-Mircrobial | 93 | | |
| 99-6103-02-2 | Watson | Formula 7300 | Alkaline Aqueous | 34 | | |
| 99-6103-02-2 | Envirosolutions | SolSafe 245 | Alcohol-aliphatic hydrocarbons | 100 | | |
| 99-6103-02-2 | AG Environmental | Soy Gold 2000 | Soy Methyl Ester | 88 | | |
| 99-6103-02-2 | International Products | Micro 90 | Alkaline Aqueous | 73 | | |
| 99-6103-02-2 | Gemtek Products | SC Aircraft & Metal | Alkaline Aqueous | 93 | | |
| 99-6103-03-4 | ForBest | Sea Wash 700 | Neutral Aqueous-Mircrobial | 99 | | |
| 99-7103-04-4 | New Pig | Degreaser | Semi-Aqueous Terpene | 100 | 98 | 86 |
| 99-7103-05-4 | New Pig | Hoofmark All Purpose | Non-ionic Surfactant | 93 | 100 | 75 |
| 99-7103-05-4 | New Pig | Industrial Degreaser | D-limonene Terpene | 61 | 91 | 68 |
| 99-7103-06-4 | Ensolve Biosystems | Grease Feast | Neutral Aqueous-Mircrobial | 94 | 100 | 88 |
| 99-7103-06-4 | United Laboratories | United 450 All Clear | Alkaline Aqueous | 95 | 100 | 91 |
| 99-7103-06-4 | United Laboratories | United 2002 Harvest Gold | Refined Vegetable Oil | 66 | 65 | -12 |
| 00-7103-07-4 | EnviroSan Products Ltd | Solution 2000 | Alkaline Aqueous | 96 | 96 | 44 |
| 00-7103-07-4 | Mirachem Corporation | Mirachem 500 RTU | Alkaline Aqueous | 99 | 94 | 76 |
| 00-7103-07-4 | Mirachem Corporation | Mirachem 500 | Alkaline Aqueous | 92 | 96 | 91 |

Summary:

Conclusion: For further information or MSDSs on any of the listed products contact the lab at (978)934-3133.