

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2000  
 DateRun: 02/25/2000  
 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.

SCL #	Cleaner Mfr	Cleaning Chem	Classification	Efficiency of Removal(%)		
				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.