CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1998

DateRun: 06/21/1998

Experimenters: Jason Marshall

ClientType: Recycling

ProjectNumber: Project #1

Substrates: Plastic

PartType: Coupon

Contaminants: Adhesive

Cleaning Methods:

Analytical Methods:

Purpose: Aqueous solution to remove acrylic adhesive

Experimental Procedure:
QUESTION #: 1
SUBSTRATE MATERIAL: Plastic-polystyrene
QUESTION ASKED: Working on a project that requires the removal of acrylic based adhesive from a polystyrene surface. The polystyrene cannot be degraded in any way. Do you have any ideas of what kind of aqueous solution will be able to do this?

Results:
RESPONSE/ANSWER: In 1998, the Massachusetts Toxics Use Reduction Institute (TURI) will publish the results of the tests conducted at the Institutes Surface Cleaning Laboratory (SCL) in a searchable database/ spreadsheet format. This should make alternative cleaner selection faster and easier. Table 1 contains the results of your query, based on the information supplied:

SCL #	Substrate	Contaminant	Process	Cleaner
97-541-01-1	PLASTIC	ADHESIVE	MANUAL	LOCTITE
97-541-01-1	PLASTIC	ADHESIVE	MANUAL	BRULIN
97-541-02-2	PLASTIC	ADHESIVE	MANUAL	TSQUARE
97-541-02-2	PLASTIC	ADHESIVE	MANUAL	ISOPROPYL ALCOHOL
97-541-02-2	PLASTIC	ADHESIVE	MANUAL	EASTERN COLOR
98-541-03-2	PLASTIC	ADHESIVE	MANUAL	ENVIROSOLUTIONS
98-541-03-2	PLASTIC	ADHESIVE	MANUAL	SOLVENT KLEENE
98-541-03-2	PLASTIC	ADHESIVE	MANUAL	INLAND TECHNOLOGIES
98-541-03-2	PLASTIC	ADHESIVE	MANUAL	OAKITE

Also, in addition to the trials conducted at SCL, the Table 2 contains cleaners which may be able to remove adhesives from plastic substrates.

Company Name	Product Name	Classification
Alconox Inc	Luminox	Aqueous
Brulin Corporation	Compliance	Alkaline Aqueous
Chrisal USA	Super CMF 240	Alkaline Aqueous
EMKAY	Safety Wash	Alkaline Aqueous
EMKAY	Safety Wash Clear	Akaline Aqueous
Gemtek Products	SC1000	Non-ionic Surfactant System
Loctite Corporation	7360	Aliphatic Ester
Occidental Chemical Corp	Oxsol 100	Chlorobenzotrifluoride
Star Cleaning Miracle Inc	Star Cleaning Miracle #50	Alkaline Aqueous

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T-Square Inc	HTF 10 B	Alkaline Aqueous-Terpene
T-Square Inc	HTF 50	Semi-Aqueous Terpene
T-Square Inc	HTF 85 B	Terpene Solvent
US Polychem	87 RB	Petroleum Distillates

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.