

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1998
 DateRun: 06/22/1998
 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 | Alkaline 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.