

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1999
 DateRun: 11/10/1999
 Experimenters: Jason Marshall
 ClientType: Silk Screen Printer
 ProjectNumber: Project #1
 Substrates: Plastic
 PartType: Coupon
 Contaminants: Inks
 Cleaning Methods: Manual Wipe
 Analytical Methods:

Purpose: Information Request

Experimental Procedure: SUBSTRATE MATERIAL: Polyester Silkscreen
 QUESTION ASKED: Would like a listing of cleaners that can be used for removing ink from polyester silkscreen. Need to have cleaner that has low or no VOCs

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. This should make alternative cleaner selection faster and easier. Here are the results of your query, based on the information supplied: Table 1 lists the successful cleaning trials conducted using ultrasonic cleaning.

Table 1. Database Search Results

| SCL # | Substrate | Contaminant | Process | Manufacturer | Product |
|-------------|-----------|-------------|-------------|------------------|----------------------|
| 97-538-02-2 | SS | INK | MANUAL | T-SQUARE | HTF 50 |
| 97-538-02-2 | SS | INK | MANUAL | T-SQUARE | HTF 60 |
| 98-559-01-1 | AL-OXIDE | INK | IMMERSION | WR GRACE | DARACLEAN 282 |
| 98-559-01-1 | AL-OXIDE | INK | IMMERSION | US POLYCHEM | DE-OX 007 |
| 98-559-01-1 | AL-OXIDE | INK | IMMERSION | OAKITE | INPROCLEAN 3800 |
| 98-559-03-2 | AL-OXIDE | INK | ULTRASONICS | WR GRACE | DARACLEAN 282 |
| 98-559-03-2 | AL-OXIDE | INK | ULTRASONICS | OAKITE | INPROCLEAN 3800 |
| 96-423-02-2 | PLASTIC | INK | IMMERSION | MACDERMID | ND 17 |
| 96-423-02-2 | PLASTIC | INK | IMMERSION | MIRACHEM | MIRACHEM 500 |
| 98-559-04-2 | PLASTIC | INK | IMMERSION | OAKITE | INPROCLEAN 3800 |
| 98-559-04-2 | PLASTIC | INK | IMMERSION | BRULIN | COMPLIANCE |
| 98-559-04-2 | PLASTIC | INK | IMMERSION | CHRISAL USA | SUPER CMF 240 |
| 98-571-02-2 | AL | INK | MANUAL | AG ENVIRONMENTAL | SOY GOLD 1000 |
| 98-571-02-2 | AL | INK | MANUAL | OAKITE | INPROCLEAN 4000 T |
| 98-571-02-2 | AL | INK | MANUAL | BUCKEYE | SHOPMASTER |
| 98-571-03-2 | AL | INK | MANUAL | T-SQUARE | HTF 50 |
| 98-571-03-2 | AL | INK | MANUAL | OAKITE | INPROCLEAN 4000 T |
| 98-682-01-2 | SS | INK | MANUAL | EXXON | AROMATIC 100 SOLVENT |
| 98-682-01-2 | SS | INK | MANUAL | AG ENVIRONMENTAL | SOY GOLD 1000 |
| 98-682-01-2 | SS | INK | MANUAL | ENVIROSOLUTIONS | BIO-T MAX |
| 98-682-01-2 | SS | INK | MANUAL | FINGER LAKES | 1/1/02 |

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|---------------|-----|--------|---------------------|-----------|
| 98-682-01-2SS | INK | MANUAL | INLAND TECHNOLOGIES | EP 921 |
| 98-682-01-2SS | INK | MANUAL | T-SQUARE | HTF 60 |
| 98-682-03-4SS | INK | MANUAL | ENVIROSOLUTIONS | BIO T MAX |

Summary:

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|----------------------|----------------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Plastic | | | | |
| Contaminants: | Inks | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| No Specific Vendor | Supplied alternatives list | | | <input checked="" type="checkbox"/> | |

Conclusion:

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