

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1999
 DateRun: 11/15/1999
 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: An additional database search was conducted based on trials that were successful in removing contaminants with CAS#s that are found in supplied MSDSs of client's contaminants. Table 1 lists the successful cleaning trials conducted using ultrasonic cleaning.

Table 1. Related CAS# Cleaning Trials

| Scl # | Substrate | Contaminant | Process | Manufacturer | Product | Classification |
|--------------|-------------|-------------|-----------|----------------------|----------------------|----------------|
| 96-420-01-2 | Electronics | Flux | Immersion | Church & Dwight | Armakleen E 2002 | Aqueous |
| 96-429-01-2 | Steel | Grease | Immersion | Ardrox | 6333 | Alkaline |
| 96-429-01-2 | Steel | Grease | Immersion | Us Polychem | Polyspray Jet 790 Xs | Alkaline |
| 96-429-02-2* | Steel | Grease | Immersion | Ardrox | 6333 | Alkaline |
| 96-429-02-2* | Steel | Tar | Immersion | Ardrox | 6333 | Alkaline |
| 96-429-02-2* | Steel | Oil | Immersion | Ardrox | 6333 | Alkaline |
| 96-429-02-2* | Steel | Oil | Immersion | Us Polychem | Polyspray Jet 790 Xs | Alkaline |
| 96-429-02-2* | Steel | Tar | Immersion | Us Polychem | Polyspray Jet 790 Xs | Alkaline |
| 96-429-02-2* | Steel | Grease | Immersion | Us Polychem | Polyspray Jet 790 Xs | Alkaline |
| 97-538-04-2 | Ss | Coating | Immersion | Calgon Corporation | Ak 6215 | Alkaline |
| 97-538-04-2 | Ss | Coating | Immersion | Carroll Company | Blue Gold | Alkaline |
| 97-538-04-2 | Ss | Coating | Immersion | Lps Laboratories Inc | Lps Precision Clean | Alkaline |
| 97-538-04-2 | Ss | Coating | Immersion | Quaker Chemical Corp | Formula 625 XI | Alkaline |
| 97-538-04-2 | Ss | Coating | Immersion | Us Polychem | 2000 Xs | Alkaline |
| 97-538-04-2 | Ss | Coating | Immersion | Valtech Corporation | Valtron Sp 2200 | Alkaline |
| 98-522-02-1 | None | Carbon | Immersion | Buckeye | Shopmaster | Alkaline |
| 98-522-02-1 | None | Carbon | Immersion | Safe Cleanup | Super-neutral | Aqueous |
| 98-676-01-2 | Al | Paint | Immersion | Solvent Kleene | D-greeze 500 | Hydrocarbon |
| 98-676-01-2 | Al | Sludge | Immersion | Solvent Kleene | D-greeze 500 | Hydrocarbon |
| 98-676-01-2 | Al | Solvent | Immersion | Solvent Kleene | D-greeze 500 | Hydrocarbon |

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|--------------|----|-----------|-----------|--------------------|----------------------|------------------|
| 98-676-01-2 | Al | Paint | Immersion | Solvent Kleene | D-greeze 500 | Hydrocarbon |
| 98-676-01-2 | Al | Sludge | Immersion | Solvent Kleene | D-greeze 500 | Hydrocarbon |
| 98-676-01-2 | Al | Solvent | Immersion | Solvent Kleene | D-greeze 500 | Hydrocarbon |
| 98-676-02-4 | Al | Sludge | Immersion | Chrisal Usa | Super Cmf 240 | Alkaline |
| 98-676-02-4 | Al | Paint | Immersion | Chrisal Usa | Super Cmf 240 | Alkaline |
| 98-676-02-4 | Al | Solvent | Immersion | Chrisal Usa | Super Cmf 240 | Alkaline |
| 98-676-02-4 | Al | Solvent | Immersion | Ag Environmental | Soy Gold 1000 | Soy Methyl Ester |
| 98-676-02-4 | Al | Paint | Immersion | Ag Environmental | Soy Gold 1000 | Soy Methyl Ester |
| 98-676-02-4 | Al | Sludge | Immersion | Ag Environmental | Soy Gold 1000 | Soy Methyl Ester |
| 99-6109-03-4 | Al | Lubricant | Immersion | Oakite Products | Inproclean 3800 | Alkaline |
| 99-6109-03-4 | Al | Lubricant | Immersion | Us Polychem | Polyspray Jet 790 P | Alkaline |
| 99-6109-03-4 | Al | Lubricant | Immersion | Us Polychem | Polyspray Jet 790 P | Alkaline |
| 99-6109-03-4 | Al | Lubricant | Immersion | Calgon Corporation | Sms 206 K | Alkaline |
| 99-6109-03-4 | Al | Lubricant | Immersion | Mix | Chem Crest / Almet B | |
| 99-7109-04-4 | Al | Lubricant | Immersion | Bcs Company | Ultra Blue 100 | |

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.