

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2022  
 DateRun: 09/09/2022  
 Experimenters: Jason Marshall  
 ClientType: Tool Manufacturer  
 ProjectNumber: Project #1  
 Substrates: Steel  
 PartType: Part  
 Contaminants: Inks  
 Cleaning Methods: Immersion/Soak  
 Analytical Methods: Smell  
 Purpose: To screen products for uv cured ink removal from printed saw blades

Experimental Procedure: Six products were selected from the lab CleanerSolutions database based on ink removal from metal parts. These products were then applied to individual provided saw blades using a squeeze bulb. About one milliliter was applied to the surface. Solutions were left on the surface and checked at five-minute intervals up to 30 minutes to see if any ink could be wiped from the surface.

Results: Several of the selected products showed positive removal of ink from the surface in the 30 minute room temperature tests.

| Product  | Observations  |
|--|---|
| SC Supersolv   | Removed some of the blue and yellow ink and grime (grey film) |
| DS 108   | Removed blue  |
| Soyclear 1500  | Removed yellow and some grime                                 |
| Citrus Burst 8   | Removed less the DS108 but less than sec-butyl acetate        |
| Bitu Ox Bio NT   | Low amount of white ink removed                               |
| Solvent Blend 1 85%D-limonene; 15% dimethyl glutarate                      | Letters disappearing and removed grime                        |
| Solvent Blend 2 60% D-limonene; 31% Benzyl Benzoate; 9% dimethyl glutarate | Ink removed down to base metal. Top performer                 |
| Ektapro EEP  | Some yellow and grime removed                                 |
| Sec-butyl acetate  | Removed blue - more than DS 108                               |

Summary:

| <b>Substrates:</b>        | Steel   |        |             |                                     |                |
|---------------------------|---|--------|-------------|-------------------------------------|----------------|
| <b>Contaminants:</b>      | Inks  |        |             |                                     |                |
| Company Name:             | Product Name:   | Conc.: | Efficiency: | Effective:                          | Observations:  |
| Gemtek Products           | SC Supersolve Safety Solvent  | 100    |             | <input checked="" type="checkbox"/> |                |
| Dysol                     | DS 108 F Wipe Solvent   | 100    |             | <input checked="" type="checkbox"/> |                |
| AG Environmental Products | Soy Clear 1500  | 100    |             | <input checked="" type="checkbox"/> |                |
| Florida Chemical Company  | Citrus Burst 8  | 100    |             | <input checked="" type="checkbox"/> |                |
| Green Way Products        | Bitu Ox Blo NT  | 100    |             | <input type="checkbox"/>            |                |
| No Specific Vendor        | Solvent Mix 85% D-limonene; 15% dimethyl glutarate                      | 100    |             | <input checked="" type="checkbox"/> |                |
| No Specific Vendor        | Solvent Mix 60% D-limonene; 31% Benzyle Benzoate; 9% dimethyl glutarate | 100    |             | <input checked="" type="checkbox"/> | Most effective |

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|                                       |                   |     |  |                          |  |
|---------------------------------------|-------------------|-----|--|--------------------------|--|
| Ashland Specialty<br>Chemical Company | Ester Solvent EEP | 100 |  | <input type="checkbox"/> |  |
|---------------------------------------|-------------------|-----|--|--------------------------|--|

Conclusion:

The effective products will be tested in a follow-up experiment where parts will be partially immersed in the surface to determine how long it would take to remove ink from saw blade.