

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 26  
 DateRun: 11/14/2025  
 Experimenters: Tatyanna Moreland Junior, Alexander Symko  
 ClientType: Adhesive Manufacturer  
 ProjectNumber: Project #1  
 Substrates:  
 PartType: Coupon  
 Contaminants: Resins/Rosins  
 Cleaning Methods: Immersion/Soak  
 Analytical Methods: HSPiP

Purpose: Determine the HSP sphere for Flexcon's 1565 copolyester resin topcoat

Experimental Procedure: 24 scintillation vials were filled with 24 different solvents from TURI's HSP matrix. The 1565 co-polyester coating was spread onto aluminum foil and allowed to air dry for 3-4 hours. After it was dry, but not hardened, balls of adhesive were scraped into each of the 24 scintillation vials and allowed to soak. For the first hour, visual observations were taken every 10 minutes, then following the first hour observations were taken every half hour up until 3 hours. The vials were then allowed to sit overnight before final observations were taken. A "0" denotes that less than 80% of the target soil was dissolved. While a rating of "1" denotes greater than 80% dissolution of the target soil.

Matrix #	Final Score
1 - Toluene	1
2 - Dimethyl Carbonate	1
3 - Xylenes	0
4 - Benzyl Alcohol	0
5 - Ethylene glycol	0
6 - Methyl Acetate	1
7 - Undecane	0
8 - Ethyl Lactate	0
9 - Acetone	1
10 - Ethyl Acetate	1
11 - Methanol	0
12 - Ethanol	0
13 - 1,3-dioxolane	1
14 - Diethyl Carbonate	0
15 - 1-propanol	0
16 - Isopropanol	0
17- Propylene Carbonate	0
18 - Thiophene	1
19 - 1-Methoxy-2-Propanol	0
20 - Dimethyl Sulfoxide	0
21 - 1-Butanol	0
22 - Dimethyl glutarate	1
23 - Anisole	1
24 - 2-Butoxyethyl-Acetate	0

Substrates:					
Contaminants:		Resins/Rosins			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
EM Science	Toluene	99%	0.00	<input checked="" type="checkbox"/>	
Alfa Aesar	Dimethyl Carbonate 99%	99%	0.00	<input checked="" type="checkbox"/>	
Fisher Scientific	Xylene	99%	0.00	<input type="checkbox"/>	
No Specific Vendor	Benzyl Alcohol	99%	0.00	<input type="checkbox"/>	

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Alfa Aesar	Ethylene Glycol	99%	0.00	<input type="checkbox"/>	
Alfa Aesar	Methyl Acetate	99%	0.00	<input checked="" type="checkbox"/>	
TCI America	Undecane	99%	0.00	<input type="checkbox"/>	
Fisher Scientific	Ethyl Lactate	99%	0.00	<input type="checkbox"/>	
J.T. Baker	Acetone	99%	0.00	<input checked="" type="checkbox"/>	
Alfa Aesar	Ethyl Acetate	99%	0.00	<input checked="" type="checkbox"/>	
Fisher Scientific	Methanol (CAS: 67-56-1)	99%	0.00	<input type="checkbox"/>	
Fisher Scientific	Ethanol	99%	0.00	<input type="checkbox"/>	
Fisher Scientific	1,3-Dioxolane (CAS:646-06-0)	99%	0.00	<input checked="" type="checkbox"/>	
Fisher Scientific	Diethyl carbonate	99%	0.00	<input type="checkbox"/>	
Fisher Scientific	1-Propanol	99%	0.00	<input type="checkbox"/>	
Fisher Scientific	Isopropanol (CAS:67-63-0)	99%	0.00	<input type="checkbox"/>	
Fisher Scientific	Propylene carbonate 99.5% (CAS: 108-32-7)	99%	0.00	<input type="checkbox"/>	
Alfa Aesar	Thiophene	99%	0.00	<input checked="" type="checkbox"/>	
Alfa Aesar	1-Methoxy 2-Propanol	99%	0.00	<input type="checkbox"/>	
Fisher Scientific	Dimethyl Sulfoxide - DMSO (CAS: 67-68-5)	99%	0.00	<input type="checkbox"/>	
Alfa Aesar	1-Butanol 99.4%+	99%	0.00	<input checked="" type="checkbox"/>	
Fisher Scientific	Dimethyl glutarate (CAS:1119-40-0)	99%	0.00	<input checked="" type="checkbox"/>	
Fisher Scientific	Anisole (CAS: 100-66-3)	99%	0.00	<input checked="" type="checkbox"/>	
Fisher Scientific	2-Butoxyethyl Acetate	99%	0.00	<input type="checkbox"/>	

**Conclusion:**

Based on the results of this test, Toluene, Dimethyl Carbonate, Methyl Acetate, Acetone, Ethyl Acetate, 1,3-dioxolane, Thiophene, Dimethyl Glutarate, and Anisole were all successful in dissolving the target soil. The other 15 solvents were not successful in dissolving the target soil.