

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2026  
 DateRun: 11/12/2025  
 Experimenters: Tatyanna Moreland Junior, Alexander Symko  
 ClientType: Adhesive Manufacturer  
 ProjectNumber: Project #1  
 Substrates:  
 PartType: Coupon  
 Contaminants: Adhesive  
 Cleaning Methods: Immersion/Soak  
 Analytical Methods: HSPiP  
 Purpose: Determining HSP Sphere coordinates for Flexcon's 1304 acrylic adhesive

Experimental Procedure: 24 scintillation vials were filled with 24 different solvents from TURI's HSP matrix. The 1304 acrylic adhesive was spread onto wax paper 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	0
2 - Dimethyl Carbonate	0
3 - Xylenes	0
4 - Benzyl Alcohol	1
5 - Ethylene glycol	0
6 - Methyl Acetate	0
7 - Undecane	0
8 - Ethyl Lactate	0
9 - Acetone	0
10 - Ethyl Acetate	1
11 - Methanol	0
12 - Ethanol	0
13 - 1,3-dioxolane	0
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:		Adhesive			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
EM Science	Toluene	99%	0.00	<input type="checkbox"/>	
Alfa Aesar	Dimethyl Carbonate 99%	99%	0.00	<input type="checkbox"/>	
Fisher Scientific	Xylene	99%	0.00	<input type="checkbox"/>	
No Specific Vendor	Benzyl Alcohol	99%	0.00	<input checked="" type="checkbox"/>	

## CLEANING LABORATORY EVALUATION SUMMARY

Alfa Aesar	Ethylene Glycol	99%	0.00	<input type="checkbox"/>	
Alfa Aesar	Methyl Acetate	99%	0.00	<input 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 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 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 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:**

Of the 24 solvents tested, Benzyl Alcohol, Ethyl Acetate, Thiophene, Dimethyl Glutarate, and Anisole succeeded in successfully dissolving the soil. The other 19 solvents did not succeed in dissolving the soil