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.

Results:

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

Summary:

Substrates:					
Contaminants:	Adhesive				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
EM Science	Toluene	99%	0.00	☐	
Alfa Aesar	Dimethyl Carbonate 99%	99%	0.00	☐	
Fisher Scientific	Xylene	99%	0.00	☐	
No Specific Vendor	Benzyl Alcohol	99%	0.00	☑	

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

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