


GREENGUARD CERTIFICATION PROGRAM OUT-OF-SCOPE TEST REPORT						
Product Description		FI-NC-6S				
Category		WINDOW TREATMENT				
SUMMARY		Environment	TVOC	Formaldehyde	Total Aldehydes	CREL/TLV
	GREENGUARD	Office	✓	✓	✓	✓
	GREENGUARD Gold	Office	✓	✓	✓	✓
		Classroom	✓	✓	✓	✓
	✓ - meets criteria; ✓* - meets within 25%; X - over criteria					

This test data is provided for general informational purposes only. The data indicate the level of emissions from the designated product and how they compare to the emission criteria of the GREENGUARD and GREENGUARD Gold standards. This data does not imply that the product has been qualified to meet the requirements of the GREENGUARD Certification program nor does it imply that the product is or is not certified by the GREENGUARD Certification program. A summary of the allowable emission limits for GREENGUARD Certification and GREENGUARD Gold Certification can be found [here](#).

Customer Information	CHESTNUT SPRINGS LLC STEPHEN SCALA 277 SILVER SPRING RD. RIDGEFIELD CT 06877 USA
Authorized by	 Allyson M. McFry Chemistry Laboratory Director

SAMPLE INFORMATION			
Test Description	The product was received by UL Environment as packaged and shipped by the customer. The package was visually inspected and stored in a controlled environment immediately following sample check-in. Just prior to loading, the product was unpackaged, and 16.24 g of product was applied to square-foot sample of the fabric provided by the customer. The sample was placed inside the environmental chamber, and tested according to the specified protocol.		
Date Received	April 30, 2025		
Test Period	May 8, 2025 - May 9, 2025		
Area	one-sided area = 0.0918 m <sup>2</sup>		
Environmental Chamber ID and Volume	SG3 - 0.0863 m <sup>3</sup>		
Product Loading	1.06 m <sup>2</sup> /m <sup>3</sup>		
Test Conditions	1.00 ± 0.05 ACH 50% RH ± 5% RH 23.0°C - 24.1°C		
***Laboratory Locations	Testing Laboratory	Analytical Laboratory	Technical Reporting Location
	ULE - Marietta	ULE - Marietta	ULE - Marietta

The temperature range specification is 23°C ± 1°. The actual temperature range listed above may vary slightly. If the range is outside this specification, data was reviewed to ensure a negative impact did not occur.

MODELING PREDICTED CONCENTRATION PARAMETERS								
Certification Program	Environment Basis	Product Usage	Surface Area (m <sup>2</sup> )	Room Volume (m <sup>3</sup> )	ACH (1/hr)	Assumed Decay Parameters		
						k <sub>T</sub>	k <sub>F</sub>	k <sub>A</sub>
GREENGUARD and GREENGUARD Gold Office	CDPH/EHLB/Standard Method	window treatment	1.49	30.6	0.68	0.031	0.005	0.023
GREENGUARD Gold Classroom	CDPH/EHLB/Standard Method	window treatment	4.46	231	0.82	0.031	0.005	0.023

RESULTS				
Analyte	24 Hour Emission Factor (µg/m <sup>2</sup> •hr)	168 Hour Predicted Concentration		
		GREENGUARD	GREENGUARD Gold	
			Office	Classroom
TVOC	12.5	< 0.001 mg/m <sup>3</sup>	< 0.001 mg/m <sup>3</sup>	< 0.001 mg/m <sup>3</sup>
Formaldehyde	BQL	< 0.001 ppm	< 0.001 ppm	< 0.001 ppm
Total Aldehydes	2.4	< 0.001 ppm	< 0.001 ppm	< 0.001 ppm

BQL denotes below quantifiable level of 0.04 µg based on a standard 18 L air collection volume for TVOC and individual VOCs and 0.1 µg based on a standard 45 L air collection volume for formaldehyde and total aldehydes.

IDENTIFIED VOLATILE ORGANIC COMPOUNDS AT 24 ELAPSED EXPOSURE HOURS		
CAS Number	Compound	Emission Factor (µg/m <sup>2</sup> •hr)
142-60-9	Propanoic acid, octyl ester*	10.4
124-13-0	Octanal <sup>†</sup>	2.4
112-31-2	Decanal*	2.1

Quantifiable level is 0.04 µg based on a standard 18 L air collection volume.

\*Indicates NIST/EPA/NIH best library match only based on retention time and mass spectral characteristics.

<sup>†</sup>Denotes quantified using multipoint authentic standard curve. Other VOCs quantified relative to toluene.

TARGET LIST ALDEHYDES AT 24 ELAPSED EXPOSURE HOURS		
CAS Number	Compound	Emission Factor (µg/m²•hr)
4170-30-3	2-Butenal	
75-07-0	Acetaldehyde	
100-52-7	Benzaldehyde	
5779-94-2	Benzaldehyde, 2,5-dimethyl	
529-20-4	Benzaldehyde, 2-methyl	
620-23-5 /104-87-0	Benzaldehyde, 3- and/or 4-methyl	
123-72-8	Butanal	
590-86-3	Butanal, 3-methyl	
50-00-0	Formaldehyde	
66-25-1	Hexanal	
110-62-3	Pentanal	
123-38-6	Propanal	

Quantifiable level is 0.1 µg is based on a standard 45 L air collection volume

Analyses based on EPA Compendium Method TO-17 and ASTM D 6196 for VOCs by thermal desorption followed by gas chromatography/mass spectrometry (TD/GC/MS), and EPA Method TO-11A and ASTM D 5197 for selected aldehydes by high performance liquid chromatography (HPLC).

Testing followed UL 2821, UL GREENGUARD Certification Program Method for Measuring and Evaluating Chemical Emissions From Building Materials, Finishes and Furnishings, Edition 2, Revision Date 8/24/2022.

*Accredited Laboratory Locations	
Location	Address
ULE - Marietta	UL Environment 2211 Newmarket Parkway, Marietta, GA 30067-9399 USA
ULE - Guangzhou	UL Verification Services (Guangzhou) Room 101, 201, 301, 501, 502, 503, Building A1, No.25. South of Huanshi Avenue Nansha District, Guangzhou, Guangdong, China
ULE - Cabiato	UL International Italia S.r.l ATTN: IAQ Laboratory Via Europa, 9, I – 22060 – Cabiato (Como), Italia
ULE - Vietnam	UL VS (VIET NAM) CO. LTD., Lot C5, Conurbation 2, Street K1, Cat Lai Industrial Zone, Thanh My Loi Ward, District 2, Ho Chi Minh City, Vietnam
UL - Shimadzu	Shimadzu Techno-Research, Inc. 1, Nishinokyo-Shimoaicho Nakagyo-ku, Kyoto 604-8436 Japan
KCL	Korea Conformity Laboratories #805, I-Valley, 149 Gongdan-ro Gunpo-si, Gyeonggi-do, 15849 Korea

## CHAIN OF CUSTODY

INTERNAL Use Only			
Project #	1002661275		
Product #	8285149		
Order #	15757001		
Task Line	1.1	UL BU	
_____ of _____			
160037318			
Cuzco 548			
<input type="checkbox"/> <b>Rush Request – Subject to upcharge.</b> Customer must confirm with UL prior to submitting product.			
<b>GREENGUARD Test Information</b>			
Test Type	<input type="checkbox"/> Certification Test • Annual/Initial Year _____ <input checked="" type="checkbox"/> Out-of-Scope Test <b>TGA</b>		
	<input type="checkbox"/> Quarterly Test • Year _____ Quarter _____ <input type="checkbox"/> Profile Study Test		
Service Line	<input checked="" type="checkbox"/> GREENGUARD <input checked="" type="checkbox"/> GREENGUARD GOLD <input type="checkbox"/> Other _____		
Test Group	Water Based Wetting Agents-01		
Product Category	Subcategory		
Application	<input type="checkbox"/> Floor/Ceiling <input type="checkbox"/> Panel <input type="checkbox"/> Wall <input type="checkbox"/> Work Surface <input type="checkbox"/> Other: _____		
Wet Products Only	Coverage Rate	Density	Specific Gravity
<b>Product and Company Information</b>			
Product Description	FI-NC-6S		
Manufacture ID#			
Company Name	Chestnut Springs LLC	Date Manufactured	04/23/25
		Contact Name	
		Job Title	
Address		Contact Phone	
		Contact Email	
<b>Collection Information</b>			
Collector Name	Purolator	Date Collected	4/25/2025
Collector Phone		Time Collected	
Collector Signature		Collection Location	
<b>Shipping Information</b>			
Carrier	Purolator	Date Shipped	4/25/2025
Shipper Name		Time Shipped	
Shipper Phone		Air Bill #	186628426880646102
Shipper Signature			
<b>Sample Submitted to</b>			
<input checked="" type="checkbox"/> UL Environment (Marietta) 2211 Newmarket Pkwy Suite 106 Marietta, GA 30067, USA	<input type="checkbox"/> UL Verification Services (Guangzhou) Building A1, 3F, Nansha Science and Technology Innovation Ctr. No. 25, South Huanshi Avenue, Nansha District, Guangzhou 511458, China	<input type="checkbox"/> UL International Italia S.r.l ATTN: IAQ Laboratory Via Europa, 9 I – 22060 – Cabiato (Como), Italia	<input type="checkbox"/> UL VS (Vietnam) Co., Ltd. Lot C5, Conurbation 2, Street K1, Cat Lai Industrial Zone Thanh My Loi Ward, Thu Duc City Ho Chi Minh City, Vietnam
<b>Post Testing Sample Disposition</b> (Sample will be disposed of 30 days after report is issued if information below is not provided)			
Return Shipping Co.		Customer Shipping Acct #	
<b>Internal Use Only – Receiving Information</b>			
Receiver Name		Receiver Signature	
Condition Upon Arrival	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Acceptable	Receive Date	4-30-25
Condition Notes		Receive Time	12:18 AM
Completed By	Based On	Date	