


THE CARPET & RUG INSTITUTE, INC. GREEN LABEL PLUS PROGRAM 24 HOUR ANNUAL TEST			
MEETS CRITERIA	✓	EXCEEDS CRITERIA	
CRI Identification	20240712-RIA2226 43X		
Date Collected	September 5, 2024		
Date Received	September 6, 2024		
Testing Laboratory Location	UL Environment • 2211 Newmarket Parkway • Marietta GA 30067-9399 USA		
Test Date	September 16, 2024 - September 17, 2024		
Product Area Exposed	one-sided area = 0.0361 m ²		
Environmental Chamber ID and Volume	SA3 - 0.0901 m ³		
Product Loading	0.40 m ² /m ³		
Test Chamber Conditions	Air change rate: 1.00 ± 0.05 1/h Inlet air flow rate: 0.0901 ± 0.004 m ³ /h	Temperature: 22.9°C - 23.6°C* Relative Humidity: 50% RH ± 5%	
Test Method	Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers Version 1.2 (California Section 01350) ASTM D 5116-17 and ASTM D 7339-18		
Authorized by	 Allyson M. McFry Chemistry Laboratory Director		
<p>*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.</p> <p>Sample tested in accordance with the CRI Green Label Plus Program, and the results are presented in Tables 1, 2, and 3 for the evaluation for compliance as stated in The Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers.</p> <p>Standard Test Methodology for Determining Volatile Organic Compound Emission Factors From Carpet and Associated Materials under Defined Test Conditions Using Small Environmental Chambers. Based on EPA Carpet Policy Dialogue Method accepted September, 1991 and reviewed by CA-DHS.</p> <p>This test is accredited and meets the requirements of ISO/IEC 17025 as verified by ANSI National Accreditation Board. Refer to certificate and scope of accreditation AT-1297.</p> <p>The environmental chamber inlet air flow is 1.5 ± 0.1 liters/minute.</p>			

PHOTOGRAPH OF SAMPLE

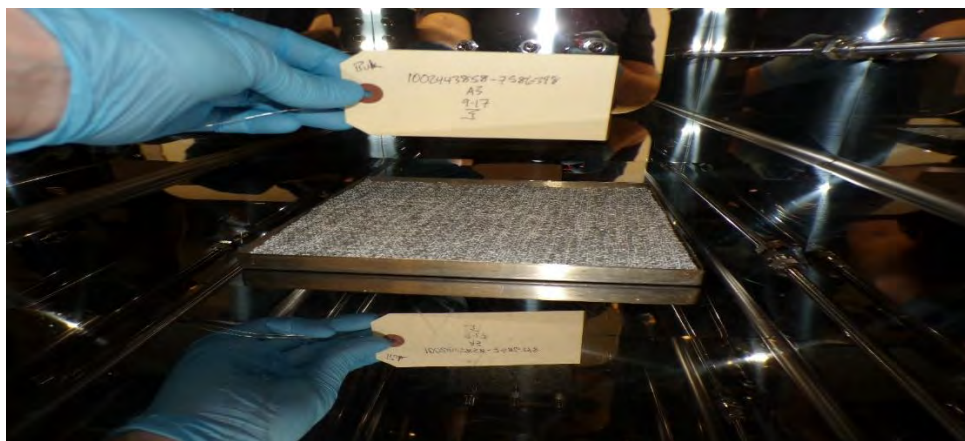


TABLE 1

CRI Identification		20240712-RIA2226 43X				
COMPARISON OF DATA TO METHOD REQUIREMENTS AT 24 HOURS						
GLP TARGET LIST						
Compound	CAS Number	CRI Criteria (µg/m³)	Chamber Concentration (µg/m³)	Emission Factor^{††} (µg/m²·hr)	Predicted Concentration (µg/m³)^{**}	Meets Criteria?
1-Methyl-2-pyrrolidinone	872-50-4	160	BQL	BQL	BQL	Yes
2-Ethylhexanoic Acid	149-57-5	25	18	46	24	Yes
4-Phenylcyclohexene (4-PC)	4994-16-5	27	BQL	BQL	BQL	Yes
ε-Caprolactam (2H-Azepin-2-one, hexahydro)	105-60-2	70	BQL	BQL	BQL	Yes
Nonanal	124-19-6	13	3.3	8.3	4.4	Yes
Octanal	124-13-0	7.2	BQL	BQL	BQL	Yes

TABLE 2

COMPARISON OF DATA TO CDPH/EHLB/STANDARD METHOD REQUIREMENTS						
Compound	CAS Number	½ CREL Criteria (µg/m³)	Chamber Concentration (µg/m³)	Emission Factor^{††} (µg/m²·hr)	Predicted Concentration (µg/m³)^{**}	Meets Criteria?
Acetaldehyde	75-07-0	70	BQL	BQL	BQL	Yes
Benzene	71-43-2	1.5	BQL	BQL	BQL	Yes
Carbon disulfide	75-15-0	400	BQL	BQL	BQL	Yes
Carbon tetrachloride	56-23-5	20	BQL	BQL	BQL	Yes
Chlorobenzene	108-90-7	500	BQL	BQL	BQL	Yes
Chloroform	67-66-3	150	BQL	BQL	BQL	Yes
Dichlorobenzene (1,4-)	106-46-7	400	BQL	BQL	BQL	Yes
Dichloroethylene (1,1)	75-35-4	35	BQL	BQL	BQL	Yes
Dimethylformamide (N,N-)	68-12-2	40	BQL	BQL	BQL	Yes
Dioxane (1,4-)	123-91-1	1,500	BQL	BQL	BQL	Yes
Epichlorohydrin	106-89-8	1.5	BQL	BQL	BQL	Yes
Ethylbenzene	100-41-4	1,000	BQL	BQL	BQL	Yes
Ethylene glycol	107-21-1	200	BQL	BQL	BQL	Yes
Ethylene glycol monoethyl ether acetate	111-15-9	150	BQL	BQL	BQL	Yes
Ethylene glycol monoethyl ether	110-80-5	35	BQL	BQL	BQL	Yes
Ethylene glycol monomethyl ether acetate	110-49-6	45	BQL	BQL	BQL	Yes
Ethylene glycol monomethyl ether	109-86-4	30	BQL	BQL	BQL	Yes
Formaldehyde	50-00-0	9.0 ^{***}	BQL	BQL	BQL	Yes
Hexane (n-)	110-54-3	3,500	BQL	BQL	BQL	Yes
Isophorone	78-59-1	1,000	BQL	BQL	BQL	Yes

COMPARISON OF DATA TO CDPH/EHLB/STANDARD METHOD REQUIREMENTS						
Compound	CAS Number	¹ / ₂ CREL Criteria (µg/m ³)	Chamber Concentration (µg/m ³)	Emission Factor ^{††} (µg/m ² ·hr)	Predicted Concentration (µg/m ³) ^{**}	Meets Criteria?
Isopropanol	67-63-0	3,500	BQL	BQL	BQL	Yes
Methyl chloroform	71-55-6	500	BQL	BQL	BQL	Yes
Methyl t-butyl ether	1634-04-4	4,000	BQL	BQL	BQL	Yes
Methylene chloride	75-09-2	200	BQL	BQL	BQL	Yes
Naphthalene	91-20-3	4.5	BQL	BQL	BQL	Yes
Phenol	108-95-2	100	42	110	56	Yes
Propylene glycol monomethyl ether	107-98-2	3,500	BQL	BQL	BQL	Yes
Styrene	100-42-5	450	BQL	BQL	BQL	Yes
Tetrachloroethylene (perchloroethylene)	127-18-4	17.5	BQL	BQL	BQL	Yes
Toluene	108-88-3	150	BQL	BQL	BQL	Yes
Trichloroethylene	79-01-6	300	BQL	BQL	BQL	Yes
Vinyl acetate	108-05-4	100	BQL	BQL	BQL	Yes
Xylenes (m-, o-, p-)	108-38-3, 95-47-6, 106-42-3	350	BQL	BQL	BQL	Yes

BQL denotes below quantifiable level of 0.04 µg for individual VOCs, with the exceptions benzene and epichlorohydrin which have a QL of 0.02 µg, based on a standard 18 L air collection volume.

^{††}The emission factor (EF) is calculated from the chamber concentration (CC), the chamber air change rate (N_C), the chamber volume (V_C), and the product area exposed in the chamber (A_C) as: $EF = (CC \cdot V_C \cdot N_C) / A_C$.

^{**}The predicted building exposure concentration (BC) is calculated from the emission factor (EF), the building air change rate (N_B), the building room volume (V_B), and the product area exposed in the building room (A_B) as: $BC = (EF \cdot A_B) / (V_B \cdot N_B)$. Prediction based on a standard office floor usage of 11.1 m² in a 30.6 m³ room with 0.68 ACH.

^{***}Guidance value per CA Standard Method

TABLE 3

CRI Identification		20240712-RIA2226 43X
EMISSION RESULTS AT 24 HOURS		
CAS Number	TVOC and Top Measured VOCs and/or Aldehydes	Measured EF (µg/m²·hr)
---	TVOC	1,200
---	Unresolved hydrocarbons	870
108-95-2	Phenol [†]	110
108-94-1	Cyclohexanone	57
108-10-1	2-Pentanone, 4-methyl (Methyl isobutyl ketone, MIBK) [†]	56
149-57-5	Hexanoic acid, 2-ethyl [‡]	46

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

[†]Denotes quantified using multipoint authentic standard curve. Other VOCs quantified relative to toluene.

[‡]Indicates compound identified and quantified by DNPH derivitization and HPLC/UV analysis.

7586398



Green Label Plus™
Indoor Air Quality Testing Program
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 Phone +1 (706) 428-2137
 Email glp@carpet-rug.org
 www.carpet-rug.org

Description
 20240712-RIA2226 43X

7586398

Customer The Carpet and Rug Institute I
 Received Date: 2024-SEP-09 16:13:44
 LabWare Project No: 1002443858
 Order No.:
 Oracle Project No.:

1 of 3

Green Label Plus™ Chain of Custody

Laboratory Use Only		Reference	
Project #	1002443858	100236223	
Product #	7586398	Rush	<input type="checkbox"/>
Receive Date	9/16/24	Confirm with Account Manager prior to sending in sample	
Sample / Package Condition Upon Arrival	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Acceptable	Receive Time	1400
Receiver Name	[Signature]	Sample Condition Notes	[Signature]
		Receiver Signature	[Signature]



Sample / Test Information	
Sample Code	20240712-RIA2226
Program Category	Carpet
Please reference sample code on all applicable documentation	
Product Category	43X
Type of Product	Modular Tile
Test Type	Retest - Interim Annual
Application Method	Applicator Specification
Application Rate	

GLP Program Manager Information	
Name	Sonya Stephens
Office	(706) 428-2137
Email	sstephens@carpet-rug.org

Company Information		Company Contacts	
Company Name and Facility Address	Chilewich Sultan LLC Hwy 225 South Chatsworth GA 30705 United States	Facility Contact	Greg Epperson
		Office	(706) 686-4667
		GLP Coordinator	Greg Epperson
		Mobile	
		Office	(706) 686-4667
		Email	gepperson@chilewich.com

Collection Information		Person Collecting Sample	
Date Manufactured	9-5-24	Date Collected	9-5-24
Time Manufactured	3:30 PM	Time Collected	3:30 PM
Collection Location	Chatsworth	Name	Lane Newberry
Roll / Batch	81240-02-04	Phone	(706) 259-1244
Style / Product Name	800111-018	Signature	[Signature]

Shipping / Tracking Information		
Laboratory Information	UL Solutions 2211 New Market Pkwy SE Ste 106 Marietta, GA 30067 United States (770) 933-0638	
	Date Shipped	9-5-24
	Time Shipped	4:30 PM
	Carrier	FedEx
	Tracking #	279761061084
	Shipper Name	Lane Newberry
Phone	706-581-3700	
Signature	[Signature]	