Released by UL Environment Date Issued: May 30, 2019 Product ID#: 1000624445-20

Test Report #: ©2019 UL LLC 1000624445-2079508 1000624445-2079508



GREENGUARD CERTIFICATION TEST REPORT MP GLOBAL PRODUCTS **DUANE REIMER Customer Information** PO BOX 2283 NORFOLK NE 68702-2283 UNITED STATES **Product Description Best Test Group** Flooring Underlayment - 01 Category Flooring **Test Type** Certification Year 2 UL 2821 "GREENGUARD Certification Program Method for Measuring and Evaluating **Test Method** Chemical Emissions From Building Materials, Finishes and Furnishings Using Dynamic Environmental Chambers" TVOC CREL/TLV Environment Formaldehyde **Total Aldehydes GREENGUARD** Office Office **GREENGUARD Gold** Classroom √ - meets criteria; X - over criteria allyn Mcfry **Laboratory Approval** Allyson M. McFry

MODELING FOR PREDICTED AIR CONCENTRATION								
Certification Program Environment Basis Modeling Basis Surface Area (m²) Volume (m³) ACH (1/hr)								
GREENGUARD and GREENGUARD Gold Office	CDPH/EHLB/Standard Method	floor	11.1	30.6	0.68			
GREENGUARD Gold Classroom	CDPH/EHLB/Standard Method	floor	89.2	231	0.82			

Chemistry Laboratory Director

Note that certain environments and/or modeling scenarios may prevent assessment of low level CREL and TLV analytes due to the emissions being below the lower LOQ (0.04 μ g). For example, benzene ½ CREL is 1.5 μ g/m³.

PHOTOGRAPH OF SAMPLE



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GREENGUARD RESULTS SUMMARY

Product Description	Best		
GREENGUARD Acceptable IAQ Criteria		168 Hour Product Measurement	Product Compliance for IAQ
TVOCa	≤ 0.5 mg/m³	< 0.003 mg/m ³	Yes
Formaldehyde	≤ 0.05 ppm	< 0.002 ppm	Yes
Total Aldehydes ^b	≤ 0.10 ppm	< 0.002 ppm	Yes
4-Phenylcyclohexene	≤ 0.0065 mg/m³	< 0.003 mg/m ³	Yes
Individual VOCs	all ≤ 1/10 TLV	c	Yes

a "TVOC" is the sum of all VOCs measured via TD/GC/MS which elute between n-hexane (C₆) and n-hexadecane (C₁₆) quantified using calibration to a toluene surrogate.

PROJECT DESCRIPTION

This study was conducted using a UL Environment's GREENGUARD test method following the requirements of GREENGUARD Certification program. The product was monitored for emissions of total volatile organic compounds (TVOC), formaldehyde, target list aldehydes, and other individual volatile organic compounds (VOCs) over a 168 hour exposure period. These emissions were measured and the resultant air concentrations were determined for each of the potential pollutants. Determination of compliance is based on predicted air concentrations modeled using the GREENGUARD program room loading.

Report Outline:

Table 1	Environmental Chamber Study Parameters
Table 2	Emission Factors and Predicted Air Concentrations
Table 3	Chamber Concentrations of Identified VOCs
Table 4	Emission Factors of Identified VOCs
Table 5	Chamber Concentrations of Target List Aldehydes
Table 6	Emission Factor of Target List Aldehydes
Table 7	Supplemental Emissions Information
Chain of Custody	Chain of Custody
Appendix 1	GREENGUARD Gold Results Summary

For UL Environment's technical references and resources click here or https://industries.ul.com/wpcontent/uploads/sites/2/2018/02/Technical-references-and-resources.pdf

For Product Evaluation Methodologies information click here or https://industries.ul.com/wp-content/uploads/sites/2/2018/02/Product-Evaluation-Methodologies-GG.pdf

For Quality Control Program or Environmental Chamber Evaluations information click here or https://industries.ul.com/wpcontent/uploads/sites/2/2018/02/Quality-Control-Procedures.pdf

For RSD, Quality Assurance Report or other quality documents, Request here or contact ULE.

^b "Total Aldehydes" is the sum of all measured normal aldehydes from formaldehyde to nonanal, plus benzaldehyde. Heptanal through nonanal are analyzed using TD/GC/MS. The remaining aldehydes are analyzed using HPL/UV methodology. All aldehydes are quantified to authentic standards.

[°]All individual VOCs detected met the criteria of less than 1/10 the ACGIH established threshold limit values (TLVs).

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Т	Α	В	L	E	•

ENVIRONME	ENTAL CHAMBER STUDY PARAMETERS
Product Description	Best
Product Manufacture Date	May 13, 2019
Product Collection Date	May 13, 2019
Product Shipping Date	May 13, 2019
Date Received	May 14, 2019
Accredited Laboratory Location*	ULE - Marietta
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, prepared for the required loading, and placed in a tray to expose the top surface side only. The sample was placed inside the environmental chamber, and tested according to the specified protocol.
Test Period	5/15/2019 - 5/22/2019
Area	one-sided area = 0.0361 m ²
Chamber Volume	0.0874 m³
Product Loading	0.41 m ² /m ³
Test Conditions	1.00 ± 0.05 ACH 50% RH ± 5% RH 22.6°C - 23.1°C

The temperature range specification is $23^{\circ}\text{C} \pm 1^{\circ}$. 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.

	*Accredited Laboratory Locations					
Location	Address					
ULE – Marietta	UL Environment 2211 Newmarket Parkway, Marietta, GA 30067-9399 USA					
ULE – Guangzhou	UL Verification Services (Guangzhou) 1-3F & Room 501, Building 2 (R&D Center A1), No. 25, South Huanshi Avenue, Nansha District, Guangzhou 511458, China					
ULE - Cabiate	UL International Italia S.r.I ATTN: IAQ Laboratory Via Europa, 9, I – 22060 – Cabiate (Como), Italia					
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					

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.

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TABLE 2

Product Description	Best					
TVOC	CHAMBER CONCE				TORS	
Elapsed Exposure Hour*	Chamber Concentration µg/m³		Emission Factor µg/m²•hr		Predicted Air Concentration** µg/m³	
0 (Background)	BQL		BQL			
6	BQL		BQL			< 3
24	BQL		BQL			< 3
48	BQL		BQL			< 3
72	BQL		BQL			< 3
96	BQL		BQL			< 3
168	BQL		BQL			< 3
FORMALD	HYDE CHAMBER C AND PREDICTEI				N FACTOR	RS
Elapsed Exposure Hour*	Chamber Concentration	Em	Emission Factor µg/m²•hr			Concentration**
	μg/m³			μg/m³		ppm
0 (Background)	BQL		BQL			
6	2.6		6.3		3	0.003
24	BQL		BQL		< 3	< 0.002
48	BQL		BQL		< 3	< 0.002
72	BQL		BQL		< 3	< 0.002
96	BQL		BQL		< 3	< 0.002
168	BQL		BQL		< 3	< 0.002
TARGET LIST A	LDEHYDES CHAMBI AND PREDICTEI				SSION FA	CTORS
Elapsed Exposure	Chamber	Em	ission Factor	Pred	licted Air C	Concentration**
. Hour*	Concentration µg/m³		μg/m²•hr	μ	g/m³	ppm
0 (Background)	BQL		BQL			
6	5.3		12.8		7	0.005
24	BQL		BQL		< 3	< 0.002
48	BQL		BQL		< 3	< 0.002
72	BQL		BQL		< 3	< 0.002
96	BQL		BQL		< 3	< 0.002
168	BQL		BQL		< 3	< 0.002

^{*}Exposure hours are nominal (± 1 hour).

BQL = Below quantifiable level of 0.04 μg based on a standard 18 L air collection volume for VOCs and 0.1 μg based on a standard 45 L air collection volume for aldehydes.

^{**}Predicted Air Concentrations are based on GREENGUARD modeling predicted concentration parameters. For more information click here.

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TABLE 3

Product Desc	ription	est							
CHAMBER CONCENTRATIONS OF IDENTIFIED INDIVIDUAL VOLATILE ORGANIC COMPOUNDS									
CAS	CVZ			Elapsed Exposure Hour (µg/m³)					
Number	Compound		0 (BG)	6	24	48	72	96	168
	none								

TABLE 4

Product De	scription	Best Best								
EMISSION FACTORS OF IDENTIFIED INDIVIDUAL VOLATILE ORGANIC COMPOUNDS										
CAS			Elapsed Exposure Hour (µg/m²•hr)							
Number		Compound	48	72	96	168				
	none									

^{*}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. Quantifiable level is 0.04 µg based on a standard 18 L air collection volume.

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TABLE 5

Produ	ct Description	Best										
	CHAMBER CONCENTRATIONS OF TARGET LIST ALDEHYDES											
CAS				Elap	sed Exp	osure H	our (µg/	/m³)				
Number	Co	ompound	0 (BG)	6	24	48	72	96	168			
4170-30-3	2-Butenal		BQL	BQL	BQL	BQL	BQL	BQL	BQL			
75-07-0	Acetaldehyde		BQL	2.7	BQL	BQL	BQL	BQL	BQL			
100-52-7	Benzaldehyde		BQL	BQL	BQL	BQL	BQL	BQL	BQL			
5779-94-2	Benzaldehyde	Benzaldehyde, 2,5-dimethyl		BQL	BQL	BQL	BQL	BQL	BQL			
529-20-4	Benzaldehyde	, 2-methyl	BQL	BQL	BQL	BQL	BQL	BQL	BQL			
620-23-5 /104-87-0	Benzaldehyde	, 3- and/or 4-methyl	BQL	BQL	BQL	BQL	BQL	BQL	BQL			
123-72-8	Butanal		BQL	BQL	BQL	BQL	BQL	BQL	BQL			
590-86-3	Butanal, 3-me	thyl	BQL	BQL	BQL	BQL	BQL	BQL	BQL			
50-00-0	Formaldehyde		BQL	2.6	BQL	BQL	BQL	BQL	BQL			
66-25-1	Hexanal		BQL	BQL	BQL	BQL	BQL	BQL	BQL			
110-62-3	Pentanal		BQL	BQL	BQL	BQL	BQL	BQL	BQL			
123-38-6	Propanal		BQL	BQL	BQL	BQL	BQL	BQL	BQL			

TABLE 6

Product D	escription	Best										
	EMISSION FACTORS OF TARGET LIST ALDEHYDES											
CAS	Compound Elapsed Exposure Hour (µg/m²•hr)											
Number		Compound	6	24	48	72	96	168				
4170-30-3	2-Butenal		BQL	BQL	BQL	BQL	BQL	BQL				
75-07-0	Acetaldeh	yde	6.5	BQL	BQL	BQL	BQL	BQL				
100-52-7	Benzaldehyde		BQL	BQL	BQL	BQL	BQL	BQL				
5779-94-2	Benzaldehyde, 2,5-dimethyl		BQL	BQL	BQL	BQL	BQL	BQL				
529-20-4	Benzaldeh	yde, 2-methyl	BQL	BQL	BQL	BQL	BQL	BQL				
620-23-5 /104-87-0	Benzaldeh	yde, 3- and/or 4-methyl	BQL	BQL	BQL	BQL	BQL	BQL				
123-72-8	Butanal		BQL	BQL	BQL	BQL	BQL	BQL				
590-86-3	Butanal, 3	-methyl	BQL	BQL	BQL	BQL	BQL	BQL				
50-00-0	Formaldehyde		6.3	BQL	BQL	BQL	BQL	BQL				
66-25-1	Hexanal		BQL	BQL	BQL	BQL	BQL	BQL				
110-62-3	Pentanal		BQL	BQL	BQL	BQL	BQL	BQL				
123-38-6	Propanal		BQL	BQL	BQL	BQL	BQL	BQL				

BQL = Below quantifiable level of 0.1 μ g based on a standard 45 L air collection volume.

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TABLE 7

SUPPLEMENTAL EMISSIONS INFORMATION

The table below represents this product's identified chemical emissions found on certain regulatory lists. This list only provides a statement regarding possible health effects associated with this compound and not the relative risks of exposure. Proper interpretation of the risks associated with exposure to a given regulated compound requires a more detailed evaluation of toxicological activity. Certain purchasing programs may require this information be submitted.

Product Description Best											
	✓() = FOUND IN LISTING (CLASS)										
CAS Number	Compound	CAL PROP. NTP IARC AIR CREL TLV 65 TOXICS									
75-07-0	Acetaldehyde	√(1)	√(2B)	√(2B)	√(IIA)	✓	✓				
50-00-0	Formaldehyde	√(1)	√(2A)	√(1)	√(IIA)	✓	✓				

[†]Denotes quantified using multipoint authentic standard curve

CAL Prop. 65: California Health and Welfare Agency, Proposition 65 Chemicals

1 = known to cause cancer 2 = known to cau

2 = known to cause reproductive toxicity

NTP: National Toxicology Program

2A = known to be carcinogenic to humans

2B = reasonably anticipated to be carcinogenic to humans

IARC: International Agency on Research of Cancer

1 = carcinogenic to humans

2A = probably carcinogenic to humans 4 = probably not carcinogenic to humans

2B = possibly carcinogenic to humans

3 = unclassifiable as to carcinogenicity to humans

2b = possibly carcinogenic to numari

California Air Toxics

- I = Substances identified as Toxic Air Contaminants, known to be emitted in California, with a full set of health values reviewed by the Scientific Review Panel.
- IIA = Substances identified as Toxic Air Contaminants, known to be emitted in California, with one or more health values under development by the Office of Environmental Health Hazard Assessment for review by the Scientific Review Panel.
- IIB= Substances NOT identified as Toxic Air Contaminants, known to be emitted in California, with one or more health values under development by the Office of Environmental Health Hazard Assessment for review by the Scientific Review Panel.
- III = Substances known to be emitted in California and are NOMINATED for development of health values or additional health values
- IVA = Substance identified as Toxic Air Contaminants, known to be emitted in California and are TO BE EVALUATED for entry into Category III.
- IVBA =Substance NOT identified as Toxic Air Contaminants, known to be emitted in California and are TO BE EVALUATED for entry into Category III.
- V = Substance identified as Toxic Air Contaminants, and NOT KNOWN TO BE EMITTED from stationary source facilities in California based on information from the AB 2588 Air Toxic "Hot Spots" Program and the California Toxic Release Inventory.
- VI = Substances identified as Toxic Air Contaminants, NOT KNOWN TO BE EMITTED from stationary source facilities in California, and are active ingredients in pesticides in California.

CREL: California Office of Environmental Health's Hazard Assessment (OEHHA), Chronic Reference Exposure Levels ✓ = Found in Listing

ACGIH TLV American Conference of Governmental Industrial Hygienists Threshold Limit Values for Chemical Substances and Physical Agents.

√ = Found in Listing.

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CHAIN OF CUSTODY

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APPENDIX 1

GREENGUARD GOLD RESULTS SUMMARY

Product Description	Product Description Best									
COMPLIANCE WITH GREENGUARD GOLD STANDARD										
GREENGUA	168 Hour Concen	Product Compliance								
Acceptable IA	AQ Criteria	Office	Classroom	for IAQ						
TVOC ≤ 0.22 mg/m³		< 0.003 mg/m ³	< 0.002 mg/m ³	Yes						
Formaldehyde	≤ 0.0073 ppm	< 0.002 ppm	< 0.002 ppm	Yes						
Total Aldehydes	≤ 0.043 ppm	< 0.002 ppm	< 0.002 ppm	Yes						
1-Methyl-2-Pyrrolidinone ≤ 0.16 mg/m³		< 0.003 mg/m ³ < 0.002 mg/m ³		Yes						
Individual VOCs	≤ 1/100 TLV and ≤ ½ chronic REL		See Below							

^{**}Predicted Air Concentrations are based on GREENGUARD Gold modeling predicted concentration parameters.

TOP TEN MOST ABUNDANT IDENTIFIED VOCS, INCLUDING ALDEHYDES							
CAS Number	Compound	168 Hour Chamber Concentration (µg/m³)	168 Hour Emission Factor	Predicted Air Concentration** (μg/m³)			
			(μg/m²•hr)	Office	Classroom		
	none						

CHEMICALS OF CONCERN WITH EXISTING TLV, CREL, CA PROP 65 OR CAL TOXIC AIR CONTAMINANT VALUES									
CAS Number	Compound	168 Hour Chamber Concentration (µg/m³)	168 Hour Emission Factor (μg/m²•hr)	168 Hour Predicted Concentration** (µg/m³)		✓ INDICA CA PROP 65	CA	SENCE O	ACGIH
				Office	Classroom	FROF 03	TAC	CILL	TLV
	none								

COMPARISON OF COMPOUNDS FOUND WITH EXISTING TLV AND/OR CHRONIC REL								
CAS Number	Compound	1/100 TLV ^a (µg/m³)	½ CA Chronic REL ^b	168 Hour Predicted Concentration** (μg/m³)		Product Compliance		
		(μ9/ /	(µg/m³)	Office	Classroom			
	none							

^aAmerican Conference of Governmental Industrial Hygienists. Threshold Limit Values for Chemical Substances and Physical Agents. Cincinnati, OH: ACGIH.

^bChronic Reference Exposure Levels (CRELs) adopted by the State of California Office of Environmental Health Hazard Assessment (OEHHA).

[†]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 with multipoint authentic standard.

^{*}Identification based on NIST mass spectral database only.

^{**}Predicted Air Concentrations are based on modeling predicted concentration parameters shown above.