## SPC Flooring Greenguard Certification



 Released by ULE
 Guangzhou Laboratory

 Date
 Issued:
 July 6, 2018

 Product ID #:
 1000447631-1668326
 1000447631-1668326

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GREENGUARD CERTIFICATION PROGRAM PROFILE STUDY TEST REPORT						
Product Description S3 - 7.0MM SPC WITH 0.5MM WEARABLE LAYER AND 1.5MM EVA UNDERLAYMENT, UNICLICK LOCK SYSTEM					Μ	
Category FLOORING						
,		Environment	TVOC	Formaldehyde	Total Aldehydes	
SUMMARY	GREENGUARD	Office	✓	✓	✓	
	GREENGUARD Gold	Office	✓	✓	$\checkmark$	
		Classroom	✓	✓	✓	
	✓ - meets criteria; ✓* - meets within 25%; X - over by more than 25% of criteria					

Customer Information	Exclusive Importer / Distributor UB Trading Pty Ltd. 13 Kirkton Place Edensor Park, NSW 2176, AUSTRALIA E: pperak@ubtrading.com.au
Laboratory Approval	Baud Qiu Operations Manager Greater China

SAMPLE INFORMATION				
Testing Laboratory Location	ULE Guangzhou Laboratory 1F-3F, Building A1, Nansha Science and Technology Innovation Center No. 25 South Huanshi Avenue, Nansha District, Guangzhou, CHINA			
Test Description	The product was received by ULE Guangzhou Laboratory 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 prepared for the required loading to expose the finished surfaces only. The sample was placed inside the environmental chamber, and tested according to the specified protocol.			
Date Received	June 19, 2018			
Test Period	June 27, 2018 - June 28, 2018			
Area	one-sided area = 0.0365 m <sup>2</sup>			
Chamber Volume	0.0862 m³			
Product Loading	0.42 m²/m³			
Test Conditions	1.00 ± 0.05 ACH 50% RH ± 5% RH 23° C ± 1° C			

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

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RESULTS						
	24 Hour	168 Hour Predicted Concentration				
Analyte	Emission Factor (μg/m²•hr)	GREENGUARD	GREENGUARD Gold			
			Office	Classroom		
TVOC	59.1	0.015 mg/m <sup>3</sup>	0.015 mg/m <sup>3</sup>	0.014 mg/m <sup>3</sup>		
Formaldehyde	9.2	0.002 ppm	0.0019 ppm	0.0017 ppm		
Total Aldehydes	14.4	0.003 ppm	0.003 ppm	0.002 ppm		

MODELING PREDICTED CONCENTRATION PARAMETERS								
Cortification Program	Environment Basis	Product Usage	Surface Area (m²)	Room Volume (m³)	ACH (1/hr)	Assumed Decay Parameters		
Certification Program						kτ	k⊧	kΑ
GREENGUARD and GREENGUARD Gold Office	CDPH/EHLB/Standard Method	Floor	11.1	30.6	0.68	0.005	0.005	0.005
GREENGUARD Gold Classroom	CDPH/EHLB/Standard Method	Floor	89.2	231	0.82	0.005	0.005	0.005

IDENTIFIED INDIVIDUAL VOLATILE ORGANIC COMPOUNDS AT 24 ELAPSED EXPOSURE HOURS				
CAS Number	Compound	Emission Factor (μg/m²•hr)		
107-98-2	2-Propanol, 1-methoxy- <sup>†</sup>	24.6		
71-36-3	1-Butanol (N-Butyl alcohol) <sup>†</sup>	16.0		
13429-07-7	2-Propanol, 1-(2-methoxypropoxy)-*	13.3		
108-88-3	Toluene (Methylbenzene) <sup>†</sup>	9.0		
104-76-7	1-Hexanol, 2-ethyl <sup>†</sup>	8.1		
20324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy)	7.2		
7473-98-5	2-Hydroxy-iso-butyrophenone*	5.5		

\*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	BQL		
75-07-0	Acetaldehyde	5.2		
100-52-7	Benzaldehyde	BQL		
5779-94-2	Benzaldehyde, 2,5-dimethyl	BQL		
529-20-4	Benzaldehyde, 2-methyl	BQL		

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 Image: Comparison of the second second

TARGET LIST ALDEHYDES AT 24 ELAPSED EXPOSURE HOURS					
CAS Emission Factor Number Compound (µg/m²•hr)					
620-23-5 /104-87-0	Benzaldehyde, 3- and/or 4-methyl	BQL			
123-72-8	Butanal	BQL			
590-86-3	Butanal, 3-methyl	BQL			
50-00-0	Formaldehyde	9.2			
66-25-1	Hexanal	BQL			
110-62-3	Pentanal	BQL			
123-38-6	Propanal	BQL			

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).

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.

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.

Testing followed UL 2821, "GREENGUARD Certification Program Method for Measuring and Evaluating Chemical Emissions From Building Materials, Finishes and Furnishings Using Dynamic Environmental Chambers" 2013.

This test is accredited under the laboratory's ISO/IEC 17025 accreditation issued by International Accreditation Service. Refer to certificate and scope of accreditation TL-441.

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