Date Issued: Product ID #: Test Report #: ©2023 UL June 28, 2023 1001962065-6142474 1001962065-6142474

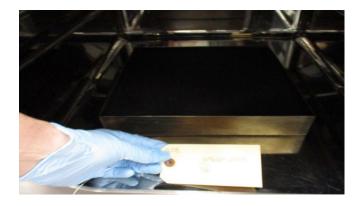


INDOOR AIR	QUALITY EVALUATION FOLLOWING THE CDPH/EHLB/STANDARD METHOD	-	
Product Description	1" Black Polyester Panel		
Customer Information	NUT SHELL LLC ROBERT WEDLAW 15125 NE 90TH STREET REDMOND WA 98052		
Testing Laboratory	UL Environment - Marietta, 2211 Newmark USA	et Parkway, Marietta, GA 30067-9399	
Product Category	Building Products		
Date Received	May 31, 2023		
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 Date	June 7, 2023 - June 21, 2023		
Product Area Exposed	one-sided area = 0.0853 m²		
Environmental Chamber ID and Volume	SC5 - 0.0939 m³		
Product Loading Ratio	0.91 m²/m³		
Test Chamber Conditions	Air change rate: $1.00 \pm 0.05 \text{ 1/h}$ Inlet air flow rate: $0.0939 \pm 0.004 \text{ m}^3\text{/h}$	Temperature: 22.6°C - 23.3°C Relative Humidity: 50% RH ± 5% RH	
Test Method	CDPH - CA Section 01350 Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers Version 1.2.		
Authorized by	Allyson M. McFry Chemistry Laboratory Director		

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.

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.

PHOTOGRAPH OF SAMPLE



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RESULTS SUMMARY

Product Des	cription	1" Black Polyester Panel				
Environment	Prod Usa		Product Surface Area	Room Volume	Ventilation Rate (ACH)	Product Compliance?
Classroom	wa	II	94.6 m²	231 m³	0.82	Yes
Office	wa	Ш	33.4 m²	30.6 m³	0.68	Yes

PROJECT DESCRIPTION

The product was monitored for emissions of TVOC, individual VOCs, formaldehyde and other aldehydes over the 96-hour test period. Measurements were made and predicted exposures were calculated according to the CA Section 01350 protocol. As specified in this protocol, the results at 96 hours, after 10 days of conditioning, were compared to ½ (one-half) the current Chronic Reference Exposure Levels (CRELs), as adopted from the California OEHHA list. All identified VOCs were also compared to the California-EPA OEHHA Proposition 65 list and the California-EPA Air Resource Board list of Toxic Air Contaminants (TACs).

Report Outline:

T.	
Table 1	Comparison of Data To Method Requirements
Table 2	Chamber Concentrations and Emission Factors
Table 3	Most Abundant Compounds
Table 4	VOC Predicted Air Concentrations And Regulatory Information
Chain of Custody	Chain of Custody

Download more information regarding UL's technical references and resources, product evaluation methodologies information, quality control program, and environmental chamber evaluations from our website click here or https://www.ul.com/offerings/greenguard-certification

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

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TABLE 1

Produc	t Descript	on 1" Bla	ck Polyester Panel				
COMPARISON O	F DATA TO	METHOD	REQUIREMENTS A	AT 96 HOURS F	OLLOWING 10 DAY	S OF CONDITION	ING
Compound	CAS Number	½ CREL (μg/m³)	Chamber Concentration (µg/m³)	Emission Factor ^{††} (µg/m²•hr)	Classroom Predicted Concentration (µg/m³)**	Office Predicted Concentration (µg/m³)**	Meets ½ CREL? (Classroom/ Office)
Acetaldehyde	75-07-0	70	BQL	BQL	BQL	BQL	Yes
Benzene	71-43-2	1.5	BQL	BQL	BQL	BQL	Yes
Carbon disulfide	75-15-0	400	BQL	BQL	BQL	BQL	Yes
Carbon tetrachloride	56-23-5	20	BQL	BQL	BQL	BQL	Yes
Chlorobenzene	108-90-7	500	BQL	BQL	BQL	BQL	Yes
Chloroform	67-66-3	150	BQL	BQL	BQL	BQL	Yes
Dichlorobenzene (1,4-)	106-46-7	400	BQL	BQL	BQL	BQL	Yes
Dichloroethylene (1,1)	75-35-4	35	BQL	BQL	BQL	BQL	Yes
Dimethylformamide (N,N-)	68-12-2	40	BQL	BQL	BQL	BQL	Yes
Dioxane (1,4-)	123-91-1	1,500	BQL	BQL	BQL	BQL	Yes
Epichlorohydrin	106-89-8	1.5	BQL	BQL	BQL	BQL	Yes
Ethylbenzene	100-41-4	1,000	BQL	BQL	BQL	BQL	Yes
Ethylene glycol	107-21-1	200	BQL	BQL	BQL	BQL	Yes
Ethylene glycol monoethyl ether acetate	111-15-9	150	BQL	BQL	BQL	BQL	Yes
Ethylene glycol monoethyl ether	110-80-5	35	BQL	BQL	BQL	BQL	Yes
Ethylene glycol monomethyl ether acetate	110-49-6	45	BQL	BQL	BQL	BQL	Yes
Ethylene glycol monomethyl ether	109-86-4	30	BQL	BQL	BQL	BQL	Yes
Formaldehyde	50-00-0	9.0***	BQL	BQL	BQL	BQL	Yes

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Pro	oduct Descripti	on 1" Bla	ick Polyester Panel				
COMPARISO	N OF DATA TO	METHOD	REQUIREMENTS A	AT 96 HOURS F	OLLOWING 10 DAY	S OF CONDITION	ING
Compound	CAS Number	½ CREL (µg/m³)	Chamber Concentration (µg/m³)	Emission Factor ^{††} (µg/m²•hr)	Classroom Predicted Concentration (µg/m³)**	Office Predicted Concentration (µg/m³)**	Meets ½ CREL? (Classroom, Office)
Hexane (n-)	110-54-3	3,500	BQL	BQL	BQL	BQL	Yes
Isophorone	78-59-1	1,000	BQL	BQL	BQL	BQL	Yes
Isopropanol	67-63-0	3,500	BQL	BQL	BQL	BQL	Yes
Methyl chloroform	71-55-6	500	BQL	BQL	BQL	BQL	Yes
Methyl t-butyl ether	1634-04-4	4,000	BQL	BQL	BQL	BQL	Yes
Methylene chloride	75-09-2	200	BQL	BQL	BQL	BQL	Yes
Naphthalene	91-20-3	4.5	BQL	BQL	BQL	BQL	Yes
Phenol	108-95-2	100	BQL	BQL	BQL	BQL	Yes
Propylene glycol monomethyl ether	107-98-2	3,500	BQL	BQL	BQL	BQL	Yes
Styrene	100-42-5	450	BQL	BQL	BQL	BQL	Yes
Tetrachloroethylene (perchloroethylene)	127-18-4	17.5	BQL	BQL	BQL	BQL	Yes
Toluene	108-88-3	150	BQL	BQL	BQL	BQL	Yes
Trichloroethylene	79-01-6	300	BQL	BQL	BQL	BQL	Yes
Vinyl acetate	108-05-4	100	BQL	BQL	BQL	BQL	Yes
Xylenes (m-, o-, p-)	1330-20-7	350	BQL	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*V_C*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*A_B)/(V_B*N_B). For more information on Predicted Concentration modeling parameters, click here.

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

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TABLE 2

Product Description 1	" Black Polyester Panel	
FOR TVOC AND F	CENTRATIONS AND EMISSION ORMALDEHYDE AT 24, 48, AND VING 10 DAYS OF CONDITIONIN	96 HOURS
Elapsed Exposure Hour After 10 Days Conditioning	Chamber Concentration (μg/m³)	Emission Factor ^{††} (μg/m²•hr)
TVOC†		
24	BQL	BQL
48	BQL	BQL
96	BQL	BQL
Formaldehyde [‡]		
24	BQL	BQL
48	BQL	BQL
96	BQL	BQL

BQL denotes below quantifiable level of 2 µg/m³.

Exposure hours are nominal (± 1 hour).

 $^{^{\}dagger}$ Defined as the sum of those VOCs that elute between the retention times of n-hexane (C_6) and n-hexadecane (C_{16}) on a non-polar capillary GC column quantified based on a toluene response factor.

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

^{††}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*V_C*N_C)/A_C.

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TABLE 3

Product Description 1" Black Polyester Panel							
TEN MOST ABUNDANT IDENTIFIED INDIVIDUAL VOLATILE ORGANIC COMPOUNDS (VOCs) AND/OR ALDEHYDES AT 96 HOURS FOLLOWING 10 DAYS OF CONDITIONING							
CAS Number	Compound	Chamber Concentration (μg/m³)	Emission Factor ^{††} (µg/m²•hr)	Exposure C (μ	d Predicted oncentration** g/m³)		
				Classroom	Office		
	none						

Exposure hours are nominal (± 1 hour).

VOC data obtained by scanning GC/MS; identification of compound made by retention time and mass spectral characteristics.

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

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

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

^{††}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 = ($CC^*V_C^*N_C$)/A_C.

 $^{^{\}ddagger \ddagger}$ Defined as the sum of those VOCs that elute between the retention times of n-hexane (C_6) and n-hexadecane (C_{16}) on a non-polar capillary GC column quantified based on a toluene response factor.

^{**}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*A_B)/(V_B*N_B). For more information on Predicted Concentration modeling parameters, click here.

Date Issued: Product ID #: Test Report #:

June 28, 2023

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TABLE 4

Pro	Product Description 1" Black Polyester Panel									
VOC PREDICTED AIR CONCENTRATIONS AND REGULATORY INFORMATION AT 96 HOURS FOLLOWING 10 DAYS OF CONDITIONING										
CAS					Emission	Predicted Exposure Concentration**		✓ Indicates Presence On List		ence
Number	Compo			,	ncentration Factor ^{††} (µg/m³) (µg/m²•hr)		/m³)	CA PROP	CA AIR	CREL
				,	Classroom	Office	65	TOXIC		
	none									

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

- CAL Prop. 65: California Health and Welfare Agency, Proposition 65 Chemicals
 - 1 = known to cause cancer
 - 2 = known to cause reproductive toxicity

CAL Toxic Air Contaminant:

- 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.
- IVB) 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.

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

^{††}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*V_C*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*A_B)/(V_B*N_B). For more information on Predicted Concentration modeling parameters, click here.

Date Issued: Product ID #: Test Report #: ©2023 UL CDPH2 June 28, 2023 1001962065-6142474 1001962065-6142474

Product Description 1" Black Polyester Panel

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☐ GLP (336 hour)		□ Odor Evaluation □ MRT UL	(These options have specific protocol)
g) Modeling:	VOCs, & aldehydes w/ modelin	SGREENGUARD Screening (24 hr TVC	
			Other Test Type Request
	ation, modeling parameters, etc.	Specify test method, non-standard sample pr	
	0.1		Desidered Code
	Subcategory		Product Category
Other:		□ Floor/Ceiling □ Panel □	
Specific Gravity	Density		Wet Products Only
	ny Information	Product and Cor	
		1" Black Polyester Panel	Product Description
			Manufacture ID#
N/A	Product Commercial Name		Manufacture ID#
	Date Manufactured	Nutshell DBA FSorb	
Robert Wedlaw	Date Manufactured Contact Name	2 PROMPOSON (1.00) (1.0	
Robert Wedlaw Sales	Date Manufactured Contact Name Job Title	15135 NE 90 th St	Company Name
Robert Wedlaw Sales (425) 881-0888	Date Manufactured Contact Name Job Title Contact Phone	15135 NE 90 th St Suite 200	Company Name
Robert Wedlaw Sales	Date Manufactured Contact Name Job Title Contact Phone Contact Email	15135 NE 90 th St Suite 200 Redmond, WA 98052	Company Name
Robert Wedlaw Sales (425) 881-0888 RobertW@FSorb.com	Date Manufactured Contact Name Job Title Contact Phone Contact Email ormation	15135 NE 90 th St Suite 200	Company Name
Robert Wedlaw Sales (425) 881-0888 RobertW@FSorb.com	Date Manufactured Contact Name Job Title Contact Phone Contact Email	15135 NE 90 th St Suite 200 Redmond, WA 98052	Company Name Address
Robert Wedlaw Sales (425) 881-0888 RobertW@FSorb.com	Date Manufactured Contact Name Job Title Contact Phone Contact Email	15135 NE 90 th St Suite 200 Redmond, WA 98052	Company Name Address Collector Name
Robert Wedlaw Sales (425) 881-0888 RobertW@FSorb.com	Date Manufactured Contact Name Job Title Contact Phone Contact Email ormation Date Collected Time Collected Collection Location	15135 NE 90 th St Suite 200 Redmond, WA 98052 Collection Shipping	Company Name Address Collector Name Collector Phone Collector Signature
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VOC EMISSION RESULTS COMPARISON TO STANDARD

Standard referenced: CDPH/EHLB/Standard Method V1.2 (January 2017) "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" (aka CA Section 01350).

PRODUCT SAMPLE INFORMATION

Manufacturer	Nut Shell LLC
Product Description	1" Black Polyester Panel
Product Type	Building Products
UL Sample Identification	1001962065-6142474
Manufactured Date	Not Provided
Test Completed Date	December 31, 2021
UL Report #	1001962065-6142474
Report Date	June 28, 2023

TEST RESULTS COMPARISON TO STANDARD CRITERIA

Environment	Classro	oom	Office		
Surface Area	94.6 n	n²	33.4 m²		
	Criterion Meets?		Criterion	Meets?	
Individual VOC	≤ ½ CREL	Yes	≤ ½ CREL	Yes	
Formaldehyde	≤ 9.0 µg/m³	Yes	≤ 9.0 µg/m³	Yes	

Environment	Classroom	Office
Surface Area	94.6 m²	33.4 m²
TVOC	0.5 mg/m³ or less	0.5 mg/m³ or less

TVOC comparison is based on LEED BD+C: New Construction v4 (LEED v4), Indoor environmental quality (EQ) category/Low-emitting materials credit/Emissions and content requirements/General emissions evaluation. http://www.usqbc.org/node/2614095?return=/credits/new-construction/v4/indoor-environmental-quality

Authorized by

Allyson McFry

Chemistry Laboratory Manager

Complete testing and data results are presented in UL Environment Report

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