Released by UL Environment April 11, 2019 1000643365-2130493 Date Issued:

Product ID #: Test Report #: ©2019 ÜL LLC

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1000643365-2130493



INDOOR AIR (QUALITY EVALUATION FOLLOWING THE COPH/EHLB/STANDARD METHOD		
Product Description	DOWSIL™ 995 White		
Customer Information	DOW SILICONES CORP KELLY ALLORE 2200 W SALZBURG RD MIDLAND MI 48686 USA		
Testing Laboratory	2211 Newmarket Parkway, Suite 106, Marietta, GA 30067-9399 USA		
Product Category	Adhesives/Sealants		
Product Sub-Category	Bead Adhesives		
Date Received	March 6, 2019		
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, a 3/8" wide bead 11.5" long was applied to a foil-wrapped plate. The sample was immediately placed inside the environmental chamber, and tested according to the specified protocol.		
Test Date	3/14/2019 - 3/28/2019		
Product Area Exposed	length = 0.292 m		
Chamber Volume	0.0860 m³		
Product Loading Ratio	3.40 m/m³		
Test Chamber Conditions	Air change rate: $1.00 \pm 0.05 \text{ 1/h}$ Inlet air flow rate: $0.086 \pm 0.004 \text{ m}^3\text{/h}$	Temperature: 22.4°C - 23.2°C* Relative Humidity: 50% RH ± 5%	
Test Method	CDPH - CA Section 01350 Standard Method for Chemical Emissions from Indoor Sources using E		
Released 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	Product Description		SIL™ 995 White			
Environment	Prod Usa		Product Surface Area	Room Volume	Ventilation Rate (ACH)	Product Compliance?
Classroom	Seala	ants	39 m	231 m³	0.82	Yes
Office	Seala	ants	14.6 m	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:

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

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 <u>click here</u> or https://industries.ul.com/wp-

content/uploads/sites/2/2018/03/ProductEvaluationMethodologies-PE.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.

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TABLE 1

Produc	ct Descripti	ion DOW	SIL™ 995 White				
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/m•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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Product ID #: 1000643365-2130493

1000643365-2130493

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Product Description | DOWSIL™ 995 White

COMPARISON OF DATA TO METHOD REQUIREMENTS AT 96 HOURS FOLLOWING 10 DAYS OF CONDITIONING

Compound	CAS Number	½ CREL (µg/m³)	Chamber Concentration (µg/m³)	Emission Factor ^{††} (µg/m•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.

^{*}Denotes compound is within volatility range of method but no calibration standard was available.

^{**}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	DOWSIL™ 995 White					
CHAMBER CONCENTRATIONS AND EMISSION FACTORS FOR TVOC AND FORMALDEHYDE AT 24, 48, AND 96 HOURS FOLLOWING 10 DAYS OF CONDITIONING						
Elapsed Exposure Hour After 10 Days Conditioning	Chamber Concentration (μg/m³)	Emission Factor ^{††} (μg/m•hr)				
TVOC†	L	L				
24	961	283				
48	881	260				
96	833	245				
Formaldehyde [‡]	_					
24	BQL	BQL				
48	BQL	BQL				
96	BQL	BQL				

BQL denotes below quantifiable level of 2 µg/m³.

Exposure hours are nominal (\pm 1 hour). [†]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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Date Issued: April 11, 2019

Product ID #: 1000643365-2130493 Test Report #: 1000643365-2130493

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TABLE 3

Product Description | DOWSIL™ 995 White

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/m•hr)	Exposure C	d Predicted oncentration** g/m³)
	TVOOT		0.45	Classroom	Office
	TVOC ^{‡‡}	833	245	50.5	172
541-02-6	Cyclopentasiloxane, decamethyl	384	113	23.3	79.3
540-97-6	Cyclohexasiloxane, dodecamethyl	332	97.8	20.1	68.6
71-36-3	1-Butanol (N-Butyl alcohol)†	37.9	11.2	2.3	7.9
107-50-6	Cycloheptasiloxane, tetradecamethyl-*	36.7	10.8	2.2	7.6
556-67-2	Cyclotetrasiloxane, octamethyl	32.1	9.4	1.9	6.6
141-97-9	Butanoic acid, 3-oxo-, ethyl ester*	21.8	6.4	1.3	4.5
67-64-1	Acetone	14.6	4.3	0.9	3.0
105-45-3	Butanoic acid, 3-oxo-, methyl ester*	6.1	1.8	0.4	1.3
64-17-5	Ethanol	4.9	1.5	0.3	1.1

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.

[#]Defined as the sum of those VOCs that elute between the retention times of n-hexane (C₆) and n-hexadecane (C₁₆) 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.

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Product ID #: 1000643365-2130493 Test Report #: 1000643365-2130493

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TABLE 4

Product Description DOWSIL™ 995 White								
VOC PREDICTED AIR CONCENTRATIONS AND REGULATORY INFORMATION AT 96 HOURS FOLLOWING 10 DAYS OF CONDITIONING								
CAS Compand Chamber Emission		Predicted Exposure Concentration**		✓ Indicates Presenc On List		sence		
Number	Compound	Concentration (µg/m³)	Factor ^{††} (µg/m•hr)	/um/ma3\		CA AIR	CREL	
		0	,,			65	TOXIC	
71-36-3	1-Butanol (N-Butyl alcohol)†	37.9	11.2	2.3	7.9		√(IVB)	

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

- 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.

Chronic REL: California Office of Environmental Health Hazard Assessment (OEHHA), Chronic Reference Exposure Levels

√ = Found in Listing

[‡]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, <u>click here</u>.

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

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1000643365-2130493 1000643365-2130493 Product ID #: Test Report #: ©2019 UL LLC

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Product Description | DOWSIL™ 995 White **CHAIN OF CUSTODY**

INTE	RNAL Use Only		21304		2130493
Project # 1000 64	13345		Dowsil 995 Silicone	Structural Seala	nt
Product # 213 040	33		Customer: Dov		Corp ra Project No.: 1000643365
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rest type	☐ Quarterly Test		uarter	☐ Profile St	udy Test
Service Line	☐ GREENGUAR	D ☐ GREENG	UARD GOLD	Other CAC	1350
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Wet Products Only	Coverage Rate		Density	and address.	Specific Gravity
	7 1 1 30		Company Informa	tion	
Product Description	Dowsil 99	13 White			
Manufacture ID#					
Company Name	Low Silicon	es Corporation	7 Date Ma	nufactured ntact Name	madyyyy Zana Alban
	270 Om:			Job Title	Celly Allore
Address	Shaphard SU	Ille Va July		tact Phone	
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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	Dow Silicones Corp		
Product Description	DOWSIL™ 995 White		
Product Type	Adhesives/Sealants		
Sample Identification	UL Environment's 1000643365-2130493		
Manufactured Date	Not Provided		
Test Completed Date	3/28/2019		
UL Environment Report #	1000643365-2130493		
Report Date	April 10, 2019		

TEST RESULTS COMPARISON TO STANDARD CRITERIA

Environment	Classro	om	0	ffice
Surface Area	39 m	2	14	.6 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	39 m²	14.6 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.usabc.org/node/2614095TMreturn=/credits/new-construction/v4/indoor-environmental-quality

Reviewed By

Allysón McFry

Chemistry Laboratory Manager

Complete testing and data results are presented in UL Environment Report

Disclaimer: This Comparison affirms that: 1) the product sample was tested according to the referenced standard; 2) the measured VOC emissions were evaluated for the defined exposure scenario(s); and 3) if so indicated above that the results meet the criteria of the referenced standard(s). UL Environment did not select the samples, determine if the samples were representative of production samples, witness the production of test samples, or were we provided with information relative to the formulation or identification of component materials used in the test samples. The test results apply only to the actual samples tested. The issuance of this Comparison in no way implies Listing, Classification or Recognition by UL and does not authorize the use of UL Listing, Classification or Recognition Marks or any other reference to UL on the product or system. UL Environment authorizes the above named company to reproduce this Comparison provided it is reproduced in its entirety. The name, brand or marks of UL cannot be used in any packaging, advertising, promotion or marketing relating to the data in this Comparison, without UL's prior written permission. UL, its subsidiaries, employees and agents shall not be responsible to anyone for the use or nonuse of the information contained in this Comparison, and shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use of, or inability to use, the information contained in this Comparison.