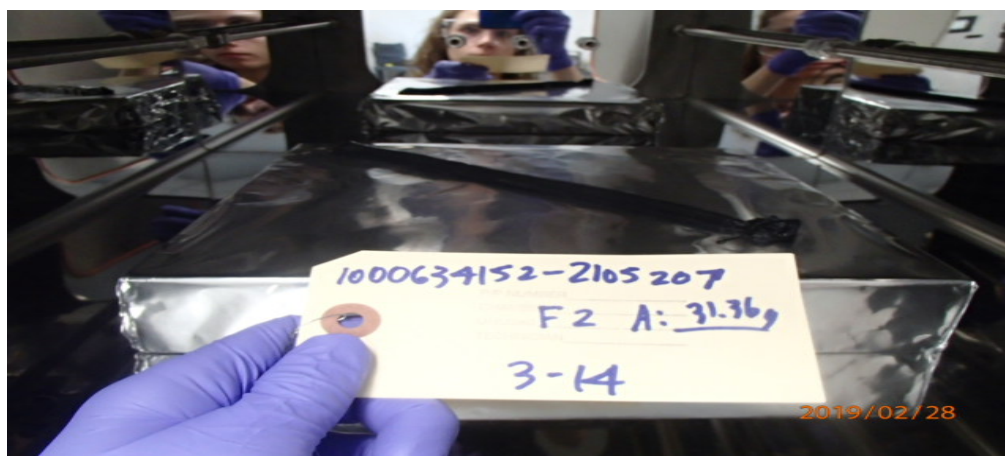




INDOOR AIR QUALITY EVALUATION FOLLOWING THE REQUIREMENTS OF CDPH/EHLB/STANDARD METHOD		
Product Description	DOWSIL™ 756 SMS Building Sealant	
Customer Information	DOW SILICONES CORP Kelly Allore 2200 W Salzburg Rd Midland MI 48686 USA	
Testing Laboratory	2211 Newmarket Parkway, Suite 106, Marietta, GA 30067-9399 USA	
Product Category	Adhesive/Sealant	
Product Sub-Category	Bead Adhesive	
Date Received	February 20, 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	2/28/2019 - 3/14/2019	
Product Area Exposed	length = 0.292 m	
Chamber Volume	0.0852 m³	
Product Loading Ratio	3.43 m/m³	
Test Chamber Conditions	Air change rate: 1.00 ± 0.05 1/h Inlet air flow rate: 0.0852 ± 0.004 m³/h	Temperature: 22.2°C - 23.8°C* Relative Humidity: 50% RH ± 5%
Test Method	CDPH - CA Section 01350 <i>Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers</i> Version 1.2.	
Released by	 Allyson M. McFry Chemistry Laboratory Director	
*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.		
This test is accredited under the laboratory’s ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AT-1297.		

PHOTOGRAPH OF SAMPLE



RESULTS SUMMARY

Product Description		DOWSIL™ 756 SMS Building Sealant			
Environment	Product Usage	Product Surface Area	Room Volume	Ventilation Rate (ACH)	Product Compliance?
Classroom	Wallboard and Panel	266 m	231 m ³	0.82	Yes
Office	Wallboard and Panel	89.6 m	30.6 m ³	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/wp-content/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/2/2018/03/ProductEvaluationMethodologies-PE.pdf>

For Quality Control Program or Environmental Chamber Evaluations information [click here](#) or <https://industries.ul.com/wp-content/uploads/sites/2/2018/02/Quality-Control-Procedures.pdf>

For RSD, Quality Assurance Report or other quality documents, [Request](#) here or contact ULE.

TABLE 1

Product Description		DOWSIL™ 756 SMS Building Sealant					
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)
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

Product Description		DOWSIL™ 756 SMS Building Sealant					
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: $EF = (CC \cdot V_c \cdot N_c) / A_c$.

*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: $BC = (EF \cdot A_B) / (V_B \cdot N_B)$. For more information on Predicted Concentration modeling parameters, [click here](#).

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

TABLE 2

Product Description		DOWSIL™ 756 SMS Building Sealant	
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†			
24		1,040	303
48		936	273
96		870	254
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).

[†]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.

[‡]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: $EF = (CC \cdot V_c \cdot N_c) / A_c$.

TABLE 3

Product Description		DOWSIL™ 756 SMS Building Sealant			
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)	Calculated Predicted Exposure Concentration** (µg/m³)	
				Classroom	Office
---	TVOC‡†	870	254	356	1,090
541-02-6	Cyclopentasiloxane, decamethyl	302	88.2	124	380
540-97-6	Cyclohexasiloxane, dodecamethyl	221	64.5	90.6	278
556-67-2	Cyclotetrasiloxane, octamethyl	69.9	20.4	28.7	87.8
105-45-3	Butanoic acid, 3-oxo-, methyl ester*	65.6	19.1	26.8	82.3
96-29-7	2-Butanone, oxime*	60.5	17.6	24.7	75.8
3901-77-7	Cyclotrisiloxane, 2,4,6-triethenyl-2,4,6-trimethyl-*	34.7	10.1	14.2	43.5
1000458-03-9	2-Cyclohexyl-6-methyl-3-(4-methylbenzyl)imidazo[1,2-a]pyridine*	34.0	9.9	13.9	42.6
107-50-6	Cycloheptasiloxane, tetradecamethyl-*	23.9	7.0	9.8	30.1
1000415-93-2	1,3,5,7-Tetramethyl-1,3,5,7-tetravinylcyclotetrasiloxane*	22.0	6.4	9.0	27.6
1000453-81-0	N-Acetyl-S-(3-methylbutyl)-L-cysteine, 3-methylbutyl ester*	13.3	3.9	5.5	16.8
38370-06-8	5H-Chromeno[4,3-d]pyrimidin-5-one, 4-amino-2-(2-hydroxyphenyl)-*	11.5	3.4	4.8	14.6

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: $EF = (CC \cdot V_c \cdot N_c) / A_c$.

‡‡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: $BC = (EF \cdot A_B) / (V_B \cdot N_B)$. For more information on Predicted Concentration modeling parameters, [click here](#).

TABLE 4

Product Description		DOWSIL™ 756 SMS Building Sealant						
VOC PREDICTED AIR CONCENTRATIONS AND REGULATORY INFORMATION AT 96 HOURS FOLLOWING 10 DAYS OF CONDITIONING								
CAS Number	Compound	Chamber Concentration (µg/m³)	Emission Factor†† (µg/m•hr)	Predicted Exposure Concentration** (µg/m³)		✓ Indicates Presence On List		
				Classroom	Office	CA PROP 65	CA AIR TOXIC	CREL
67-56-1	Methanol	2.0	0.6	0.8	2.6	✓()	✓(IIA)	✓

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

[†]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: $EF = (CC \cdot V_c \cdot N_c) / A_c$.

^{**}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: $BC = (EF \cdot A_B) / (V_B \cdot N_B)$. For more information on Predicted Concentration modeling parameters, [click here](#).

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.

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

✓ = Found in Listing

Product Description	DOWSIL™ 756 SMS Building Sealant
CHAIN OF CUSTODY	

INTERNAL Use Only		2105207			
Project # 1000634152-2105207		Description 2105207 Dowsil 756 SMS Building Sealant			
Product #		Customer: Dow Silicones Corp			
Order # 12720755		Received Date: Aurora Project No.: 1000634152 Order No.: 12720755 2019-FEB-25 03:11:49 PM Oracle Project No.:			
Task Line		UL BU		1 of 4	
of		1000 22818			
<input type="checkbox"/> Rush Request – Subject to upcharge. Customer must confirm with UL prior to submitting product.					
GREENGUARD Test Information					
Test Type	<input type="checkbox"/> Certification Test • Annual/Initial Year		<input type="checkbox"/> Out-of-Scope Test		
	<input type="checkbox"/> Quarterly Test • Year Quarter		<input type="checkbox"/> Profile Study Test		
Service Line	<input type="checkbox"/> GREENGUARD <input type="checkbox"/> GREENGUARD GOLD		<input checked="" type="checkbox"/> Other CAD350		
Test Group					
Product Category	Adhesive/Sealants		Subcategory Bead Adhesive		
Application	<input type="checkbox"/> Floor/Ceiling <input type="checkbox"/> Panel		<input type="checkbox"/> Wall <input type="checkbox"/> Work Surface <input type="checkbox"/> Other:		
Wet Products Only	Coverage Rate	Density	Specific Gravity		
Product and Company Information					
Product Description	756 SMS Building Sealant BLACK Dowsil				
Manufacture ID#					
Company Name	DOW Silicones Corp.		Date Manufactured	mm/dd/yyyy	
Address	270 Omega Parkway Ste. 20 Shepherdville KY 40165		Contact Name	Kelly Allgre	
			Job Title	k.allgre@dow.com	
			Contact Phone		
			Contact Email		
Collection Information					
Collector Name			Date Collected	mm/dd/yyyy	
Collector Phone			Time Collected		
Collector Signature			Collection Location		
Shipping Information					
Carrier	ups		Date Shipped	mm/dd/yyyy 3/18/19	
Shipper Name			Time Shipped		
Shipper Phone			Air Bill #	1E68V8190312479824	
Shipper Signature					
Sample Submitted to					
<input checked="" type="checkbox"/> UL Environment (Marietta) 2211 Newmarket Pkwy Suite 106 Marietta, GA 30067, USA	<input type="checkbox"/> UL Verification Services (Guangzhou) Building A1, 3F, Nansha Science and Technology Innovation Ctr. No. 25, South Huanshi Avenue, Nansha District, Guangzhou 511458, China		<input type="checkbox"/> UL International Italia S.r.l. ATTN: IAQ Laboratory Via Europa, 9 I-22060 - Cabiato (Como), Italia		<input type="checkbox"/> Other
Post Testing Sample Disposition (Sample will be disposed of 30 days after report is issued if information below is not provided)					
Return Shipping Co.			Customer Shipping Acct #		
Internal Use Only – Receiving Information					
Receiver Name	DOW		Receiver Signature	DOW	
Condition Upon Arrival	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Acceptable		Receive Date	2/20/19	
Condition Notes			Receive Time	9:00 AM	
Completed By	Based On		Date		

00-EN-F0853 – Issue 5.0



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™ 756 SMS Building Sealant
Product Type	N/A
Sample Identification	UL Environment's 1000634152-2105207
Manufactured Date	Not Provided
Test Completed Date	3/14/2019
UL Environment Report #	1000634152-2105207
Report Date	March 25, 2019

TEST RESULTS COMPARISON TO STANDARD CRITERIA

Environment	Classroom		Office	
Surface Area	266 m		89.6 m	
	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	266 m	89.6 m
TVOC	0.5 mg/m³ or less	Between 0.5 and 5.0 mg/m³

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.usgbc.org/node/2614095?return=/credits/new-construction/v4/indoor-environmental-quality>

Reviewed By	 Allyson McFry Chemistry Laboratory Manager
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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.