



TEST REPORT

DATE: 07-12-2023

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TEST NUMBER: 0297874

CLIENT	Palziv North America
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TEST METHOD CONDUCTED	CDPH Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers Version 1.2
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	HQ Living Carpet Cushion - 7/16" Green

TEST PROCEDURE

The submitted product was tested for VOC emissions by test method-ASTM D5116 Modified Organic Emissions Testing. The capture media used were Solid Sorbent Tubes (Tenax TA/Carbon) and 2,4 DNPH on SiO₂. The day 11 results below show the highest levels detected over the 4 timed readings.

CONDITIONS:

Sample Area	36 inch ²
Chamber ID	AB
Chamber Volume	0.053 m ³
Chamber Loading	0.43 m ² /m ³
Sampling Time	10 day conditioning + 96 hours
Temperature	23° C (+/-2)
Relative Humidity	50% (+/-10)
Pressure	Normal
Air Change Rate Per Hour	1.0
Chamber Background Target Level	Pass/Clean
Capture Media	2,4 DNPH on SiO ₂ and Solid Sorbent Tubes (Tenax TA/Carbon)

APPROVED BY:

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TEST RESULTS

VOC Name	Calculated Emission Factor ($\mu\text{g}/\text{m}^2\text{hr}$)	Predicted Airborne Concentration ($\mu\text{g}/\text{m}^3$)*		Maximum Concentration Limits ($\mu\text{g}/\text{m}^3$)
		Classroom	Private Office	
Total VOCs (TVOC)	390	190	210	NA†
Formaldehyde ^{1,2}	<3.1	<1.5	<1.7	9
Acetaldehyde ^{1,2}	<4.2	<2.0	<2.3	70
Isopropanol	<2.8	<1.3	<1.5	3500
1,1-dichloroethylene	<2.8	<1.3	<1.5	35
Methylene chloride ²	<2.8	<1.3	<1.5	200
Carbon disulfide ^{1,2}	<2.8	<1.3	<1.5	400
MTBE ²	<2.8	<1.3	<1.5	4000
Vinyl acetate ²	<2.8	<1.3	<1.5	100
Hexane ²	<2.8	<1.3	<1.5	3500
Chloroform ^{1,2}	<2.8	<1.3	<1.5	150
2-methoxyethanol ¹	<2.8	<1.3	<1.5	30
1,1,1-trichloroethane ²	<2.8	<1.3	<1.5	500
Benzene ^{1,2}	<2.8	<1.3	<1.5	1.5
1-methoxy-2-propanol	<2.8	<1.3	<1.5	3500
Carbon tetrachloride ^{1,2}	<2.8	<1.3	<1.5	20
Ethylene glycol ²	<2.8	<1.3	<1.5	200
1,4-dioxane ^{1,2}	<2.8	<1.3	<1.5	1500
Trichloroethylene ^{1,2}	<2.8	<1.3	<1.5	300
Epichlorohydrin ^{1,2}	<1.4	<0.67	<0.76	1.5
2-ethoxyethanol ¹	<2.8	<1.3	<1.5	35
n,n-dimethylformamide ²	<2.8	<1.3	<1.5	40
Toluene ^{1,2}	<2.8	<1.3	<1.5	150

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TEST RESULTS

VOC Name	Calculated Emission Factor (µg/m ² hr)	Predicted Airborne Concentration (µg/m ³)*		Maximum Concentration Limits (µg/m ³)
		Classroom	Private Office	
2-methoxyethanol acetate ¹	<2.8	<1.3	<1.5	45
Tetrachloroethylene ^{1,2}	<2.8	<1.3	<1.5	17.5
Chlorobenzene ²	<2.8	<1.3	<1.5	500
Ethylbenzene ^{1,2}	<2.8	<1.3	<1.5	1000
m & p-xylene ²	<2.8	<1.3	<1.5	350
Styrene ^{1,2}	<2.8	<1.3	<1.5	450
2-ethoxyethyl acetate ¹	<2.8	<1.3	<1.5	150
o-xylene ²	<2.8	<1.3	<1.5	350
Phenol ²	<2.8	<1.3	<1.5	100
1,4-dichlorobenzene ^{1,2}	<2.8	<1.3	<1.5	400
Isophorone ²	<2.8	<1.3	<1.5	1000
Naphthalene ^{1,2}	<1.4	<0.67	<0.76	4.5

* Assumes a 24' x 40' x 8.5' classroom with a ventilation rate of 0.82 h-1 and a 10' x 12' x 9' private office with a ventilation rate of 0.68 h-1 as defined by CDPH/EHLB/Standard Method V.1.2

† TVOC is not included as a target compound in the CDPH Standard, but is reported as part of the requirements of the Standard.

1 Compound included on Cal/EPA OEHA Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) list

2 Compound included on Cal/EPA ARB list of Toxic Air Contaminants (TAC)

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TEST RESULTS

To compare the chamber-derived data to the standards established under CDPH Standard Method emission factors for targeted compounds are calculated based on the 14 day test point data. These emission factors are used to predict airborne concentrations of target compounds in a CDPH-defined classroom with a total floor area of 89.2 square meters, and a typical private office with a total floor area of 11.1 square meters for purposes of this report, use of the flooring was modeled for use in classroom and private office settings. Table 1 presents the results of the modeled data.

Emission Factor	390 ugm ² /hr
Classroom Concentration	190 ugm ² /hr
Office Concentration	210 ugm ² /hr

NOTE: Predicted airborne concentrations of the CDPH target compounds in both a classroom and private office setting are less than the 14 day CDPH Standard Method v 1.2 maximum concentration limits, indicating this material meets the requirements of the CDPH.

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