Professional Testing Laboratory LLC

TEST REPORT

DATE: 06-10-2024 **TEST NUMBER**: 0308081

CLIENT	Nurazzo

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

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Nurazzo Tile
CONSTRUCTION	Epoxy Terrazzo Tile
REFERENCE	PO #6334

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 SiO_2. 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 SiO2 and Solid Sorbent Tubes (Tenax TA/Carbon)

APPROVED BY: Lee Phillips

714 Glenwood Place Dalton, GA 30721 Phone: 706-226-3283 Fax: 706-226-6787 email: protest@optilink.us

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TEST RESULTS

VOC Name	Calculated Emission Factor (µg/m²hr)	Predicted Airborne Concentration (µg/m³)*		Maximum Concentration Limits (µg/m³)
		Classroom	Private Office	
Total VOCs (TVOC)	6.3	3.0	3.4	NA†
Formaldehyde1,2	6.1	2.9	3.3	9
Acetaldehyde1,2	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 chloride2	<2.8	<1.3	<1.5	200
Carbon disulfide1,2	<2.8	<1.3	<1.5	400
MTBE2	<2.8	<1.3	<1.5	4000
Vinyl acetate2	<2.8	<1.3	<1.5	100
Hexane2	<2.8	<1.3	<1.5	3500
Chloroform1,2	<2.8	<1.3	<1.5	150
2-methoxyethanol1	<2.8	<1.3	<1.5	30
1,1,1-trichloroethane2	<2.8	<1.3	<1.5	500
Benzene1,2	<2.8	<1.3	<1.5	1.5
1-methoxy-2-propanol	<2.8	<1.3	<1.5	3500
Carbon tetrachloride1,2	<2.8	<1.3	<1.5	20
Ethylene glycol2	<2.8	<1.3	<1.5	200
1,4-dioxane1,2	<2.8	<1.3	<1.5	1500
Trichloroethylene1,2	<2.8	<1.3	<1.5	300
Epichlorohydrin1,2	<1.4	<0.67	<0.76	1.5
2-ethoxyethanol1	<2.8	<1.3	<1.5	35
n,n-dimethylformamide2	<2.8	<1.3	<1.5	40
Toluene1,2	<2.8	<1.3	<1.5	150

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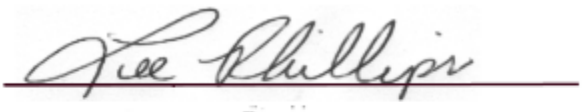
APPROVED BY: 

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TEST RESULTS

VOC Name	Calculated Emission Factor (µg/m²hr)	Predicted Airborne Concentration (µg/m³)*		Maximum Concentration Limits (µg/m³)
		Classroom	Private Office	
2-methoxyethanol acetate1	<2.8	<1.3	<1.5	45
Tetrachloroethylene1,2	<2.8	<1.3	<1.5	17.5
Chlorobenzene2	<2.8	<1.3	<1.5	500
Ethylbenzene1,2	<2.8	<1.3	<1.5	1000
m & p-xylene2	<2.8	<1.3	<1.5	350
Styrene1,2	<2.8	<1.3	<1.5	450
2-ethoxyethyl acetate1	<2.8	<1.3	<1.5	150
o-xylene2	<2.8	<1.3	<1.5	350
Phenol2	<2.8	<1.3	<1.5	100
1,4-dichlorobenzene1,2	<2.8	<1.3	<1.5	400
Isophorone2	<2.8	<1.3	<1.5	1000
Naphthalene1,2	<1.45	<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 v1.2
† 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 OEHHA 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	6.3 ugm^2/hr
Classroom Concentration	3.0 ugm^2/hr
Office Concentration	3.4 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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