



Report Prepared For

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Higher Dose
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Project: Sauna Blanket & PEM Mat
C.O.C. #: 108215

Summary Report Prepared By

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This report provides additional description and information regarding the testing referenced above. The evaluation of these products is limited to the scope of this project and may not include all hazards or concerns associated with the products. External information and data are accurate to the best of our ability but are reliant on the accuracy of the source material.

Summary

The purpose of this project is to determine the volatile organic compound (VOC) emissions from two products, the Higher Dose Sauna blanket and PEM mat, at several use settings. The primary concerns are regarding chemical compounds emitted by these products that are listed on California Proposition 65 (i.e., Prop 65, which includes chemicals that that can cause cancer, birth defects or other reproductive harm) and California Specification 01350 (Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers Version 1.2 Table 4.1).

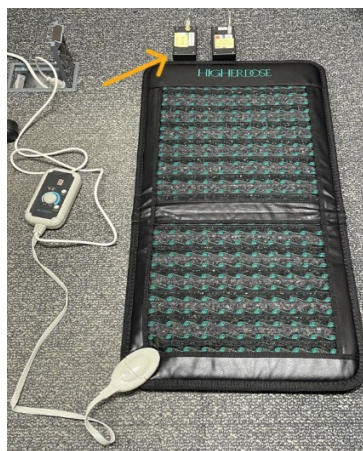
None of the compounds detected from either product are on the CA Prop 65 list. **

The Sauna Blanket emitted N,N-Dimethylformamide (CAS # 68-12-2) at levels below the maximum allowable concentration of 40 ug/m³, as stated by this CA Spec. 01350 standard.

Procedure

An unoccupied office measuring approximately 10x10 feet was used as the testing site. Samples were collected of the room air prior to placing the mat or blanket inside the room. After the blank was collected, the item was placed in the middle of the room and the sampling apparatus was placed near the head of the item (see images below).

The collected thermal desorption tube samples were analyzed by thermal desorption-gas chromatography mass spectrometry (TD-GCMS).



Laboratory Accreditation Certificates can be found at <https://enthalpy.com/accreditations/> (Mt. Pleasant, MI location).

Compound Lists Referenced

California Prop 65 list

******We did not test for every compound on the CA Prop 65 list, only those *that the Enthalpy Analytical-MTP testing methods can detect*. See the compounds confirmed absent from the materials below.

Chemical	Type of Toxicity	CAS No.
Acrylonitrile	cancer	107-13-1
Allyl chloride Delisted October 29, 1999	cancer	107-05-1
Benzene	cancer	71-43-2
Benzene	developmental, male	71-43-2
Bromodichloromethane	cancer	75-27-4
Bromoform	cancer	75-25-2
1,3-Butadiene	cancer	106-99-0
1,3-Butadiene	developmental, female, male	106-99-0
Carbon disulfide	developmental, female, male	75-15-0
Carbon tetrachloride	cancer	56-23-5
Chlorodibromomethane Delisted October 29, 1999	cancer	124-48-1
Chloroform	cancer	67-66-3
Chloroform [Basis for listing changed effective December 23, 2016]	developmental	67-66-3
Chloroprene	cancer	126-99-8
Cumene	cancer	98-82-8
1,2-Dibromo-3-chloropropane (DBCP)	cancer	96-12-8
1,2-Dibromo-3-chloropropane (DBCP) [Basis for listing changed effective November 22, 2013]	male	96-12-8
<i>p</i> -Dichlorobenzene	cancer	106-46-7
1,1-Dichloroethane	cancer	75-34-3
Dichloromethane (Methylene chloride)	cancer	75-09-2
1,2-Dichloropropane	cancer	78-87-5
1,4-Dioxane	cancer	123-91-1
Ethylbenzene	cancer	100-41-4
Ethylene dibromide	cancer	106-93-4
Ethylene dibromide	developmental, male	106-93-4
Ethylene dichloride (1,2-Dichloroethane)	cancer	107-06-2
Hexachlorobutadiene	cancer	87-68-3
<i>n</i> -Hexane	male	110-54-3
Methyl acrylate	cancer	96-33-3
Methyl isobutyl ketone	cancer	108-10-1
Methyl isobutyl ketone (MIBK)	developmental	108-10-1
Naphthalene	cancer	91-20-3
Nitrobenzene	cancer	98-95-3
Nitrobenzene	male	98-95-3
Styrene	cancer	100-42-5
1,1,1,2-Tetrachloroethane	cancer	630-20-6
1,1,2,2-Tetrachloroethane	cancer	79-34-5
Tetrachloroethylene (Perchloroethylene)	cancer	127-18-4
Tetrahydrofuran	cancer	109-99-9
Toluene	developmental	108-88-3
1,1,1-Trichloroethane	cancer	71-55-6
Trichloroethylene	cancer	79-01-6
Trichloroethylene	developmental, male	79-01-6
1,2,3-Trichloropropane	cancer	96-18-4
Vinylidene chloride (1,1-Dichloroethylene)	cancer	75-35-4
Vinyl trichloride (1,1,2-Trichloroethane)	cancer	79-00-5

Table 4-1 Target CREL VOCs and their maximum allowable concentrations

No.	Compound Name	CAS No.	Allowable Conc. ^a ($\mu\text{g}/\text{m}^3$)
1	Acetaldehyde	75-07-0	70
2	Benzene	71-43-2	30
3	Carbon disulfide	75-15-0	400
4	Carbon tetrachloride	56-23-5	20
5	Chlorobenzene	108-90-7	500
6	Chloroform	67-66-3	150
7	Dichlorobenzene (1,4-)	106-46-7	400
8	Dichloroethylene (1,1)	75-35-4	35
9	Dimethylformamide (N,N-)	68-12-2	40
10	Dioxane (1,4-)	123-91-1	1,500
11	Epichlorohydrin	106-89-8	1.5
12	Ethylbenzene	100-41-4	1,000
13	Ethylene glycol	107-21-1	200
14	Ethylene glycol monoethyl ether	110-80-5	35
15	Ethylene glycol monoethyl ether acetate	111-15-9	150
16	Ethylene glycol monomethyl ether	109-86-4	30
17	Ethylene glycol monomethyl ether acetate	110-49-6	45
18	Formaldehyde	50-00-0	16.5 ^b
19	Hexane (n-)	110-54-3	3,500
20	Isophorone	78-59-1	1,000
21	Isopropanol	67-63-0	3,500
22	Methyl chloroform	71-55-6	500
23	Methylene chloride	75-09-2	200
24	Methyl <i>t</i> -butyl ether	1634-04-4	4,000
25	Naphthalene	91-20-3	4.5
26	Phenol	108-95-2	100
27	Propylene glycol monomethyl ether	107-98-2	3,500
28	Styrene	100-42-5	450
29	Tetrachloroethylene	127-18-4	17.5
30	Toluene	108-88-3	150
31	Trichloroethylene	79-01-6	300
32	Vinyl acetate	108-05-4	100
33-35	Xylenes, technical mixture (m-, o-, p-xylene combined)	108-38-3, 95-47-6, 106-42-3	350

a) Refer to http://www.oehha.ca.gov/air/chronic_rels/AllChrels.html. All maximum allowable concentrations are one-half the corresponding CREL adopted by Cal/EPA OEHHA with the exception of formaldehyde. For any future changes in the CREL list by OEHHA, values in Table 4.1 shall continue to apply until these changes are published in the Standard Method.

b) Formaldehyde has a CREL of 9 $\mu\text{g}/\text{m}^3$ (December 2008); guidance value established by this Standard Method at 16.5 $\mu\text{g}/\text{m}^3$ before Dec 31st, 2011 and at 9 $\mu\text{g}/\text{m}^3$ starting from Jan 1st, 2012. See Section 4.3.2.