

## *Supplementary Information*

### **Characterizing key volatile pollutants emitted from adhesives by chemical compositions, odor contributions and health risks**

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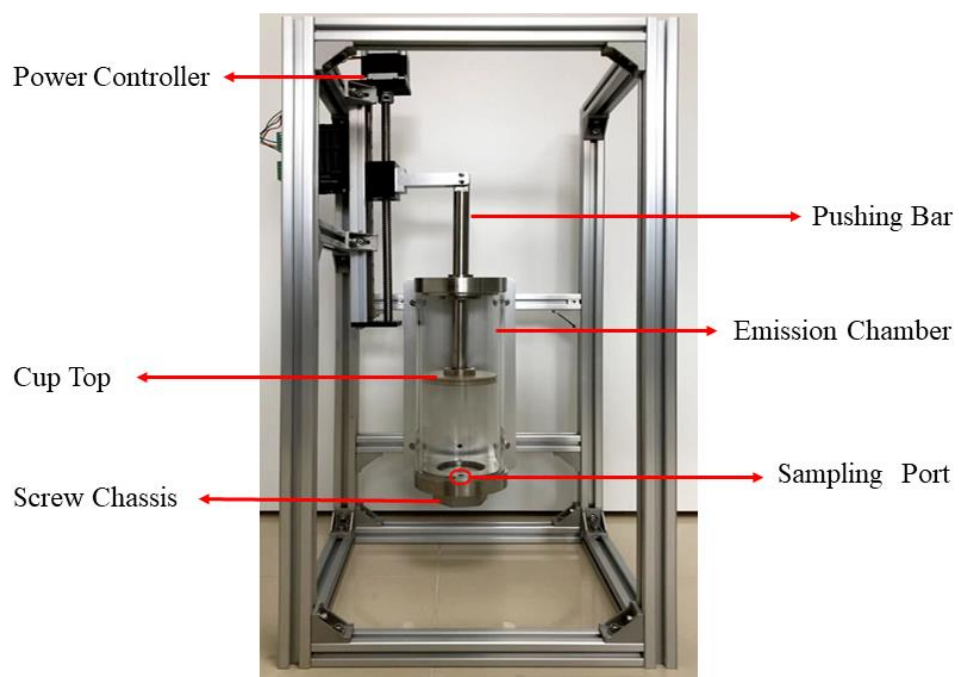
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**Figure S1. Structure and components of the sealed gas emission chamber.**



**Table S1. Odor activity values (OAVs) of volatile compounds emitted from white emulsion adhesive.**

	Xylene	Ethylbenzene	4-methyl-2-pentone	Ethyl acetate	Methyl acetate	Trichloromethane	Benzene	Butanone	Cyclohexane	tert-Butanol	Dibutyl ether
<b>S-1</b>	66.09	4.91	37.74								
<b>S-2</b>	10.94		4.47		2.03						
<b>S-3</b>	185.28	18.86	79.06							0.33	30.01
<b>S-4</b>	49.25	3.19	23.01		3.63						53.12
<b>S-5</b>	1.12		1.16	9.72					4.17		
<b>S-6</b>	59.22	14.82	0.43	1.83	0.68						
<b>S-7</b>	35.84	13.63	0.36	13.10	0.71	1.39	3.50				
<b>S-8</b>	45.05	22.96	0.55		2.70	0.95	0.52		0.029		
<b>S-9</b>	85.08	20.14	0.42	4.32	0.18		0.56	1.85	0.014		
<b>S-10</b>	90.09		0.75	5.66	0.178		0.35	2.54	0.024		4.64

**Table S2. Odor activity values (OAVs) of volatile compounds emitted from silicone adhesive.**

	Butanone oxime	Butanone	Ethanol	4-methyl-2-pentone	Ethylbenzene	Xylene	Butyl acetate	Ethyl acetoacetate	Methyl acetoacetate	N, N-dimethylformamide	Isopropanol	Butanol	Acetone	Cyclohexane
<b>W-1</b>	3206.54	54.60												1.85
<b>W-2</b>	53.08				0.25		92.66					424.72	0.34	
<b>W-3</b>	3934.30	83.70	175.38											
<b>W-4</b>	2806.39	52.26	294.51	4.59		4.02								
<b>W-5</b>	124.32		905.87							2.39				
<b>W-6</b>	1069.75	4.48	121.27											0.07
<b>W-7</b>	3154.77	47.09	66.32			0.44								
<b>W-8</b>	347.87							1653.41	5806.51		1.97			
<b>W-9</b>	5289.86	38.23		10.51		8.73								
<b>W-10</b>	3298.17	22.66	1143.79	14.68		14.75								
<b>W-11</b>	895.44	4.48	93.48											
<b>W-12</b>	1575.72	4.37	96.58											
<b>W-13</b>	719.55	4.39	2.62											
<b>W-14</b>	69.51											55.39		
<b>W-15</b>	113.19		102.80											
<b>W-16</b>	1121.43	4.53	25.58											
<b>W-17</b>	1219.32	3.18	22.38											
<b>W-18</b>	1543.74	7.72	73.65											
<b>W-19</b>	1184.85		142.79											

W-20 98.04

0.47

0.27

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**Figure S2. Proportions of the cancer risks of volatile compounds emitted from white emulsion adhesives.**

