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Supporting Information

2 **Bioaccumulation of Hexachlorobutadiene in Pumpkin**

3 **Seedlings after Waterborne Exposure**

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5 Xingwang Hou^{1,2}, Haiyan Zhang³, Yanlin Li^{1,4}, Miao Yu^{1,2}, Jiyan

6 Liu^{1,2*} and Guibin Jiang^{1,2}

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8 ¹State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental

9 Sciences, Chinese Academy of Sciences, P.O. Box 2871, Beijing 100085, China

10 ² College of Resources and Environment, University of Chinese Academy of Sciences, Beijing 100049, China

11 ³ College of Environment, Zhejiang University of Technology, Hangzhou 310032, China

12 ⁴ School of Earth and Space Sciences, University of Science and Technology of China, Hefei 230026, China

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17 *Corresponding author

18 Tel: 8610-62849334

19 Fax: 8610-62849339

20 E-mail: liujy@rcees.ac.cn

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24 **Table SI-1** The selected ions (m/z) of HCBd and its possible dechlorinated metabolites for GC-
25 MS analysis.

Compound	Formula	Quantitative Ion (m/z)	Qualitative Ions (m/z)
HCBD	C ₄ Cl ₆	225	223
¹³ C-HCBD	¹³ C ₄ Cl ₆	231	233
Penta-CBD	C ₄ HCl ₅	191	189, 193
Tetra-CBD	C ₄ H ₂ Cl ₄	155	190, 192
Tri-CBD	C ₄ H ₃ Cl ₃	121	156, 158

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27 **Table SI-2.** The final mass distribution and total recoveries of HCBd in exposure systems in
28 which HCBd was spiked in the beginning of the exposure experiment, and the solutions were not
29 renewed during the 10-day exposure.

Leaf (ng)	Stem (ng)	Root (ng)	Solution (ng)	Spiking amount (ng)	Total recovery (%)
1.4 ± 0.2 ^a	0.79 ± 0.09	37 ± 9	10 ± 8	4500	1.2 ± 0.1

30 ^a Mean value ± standard deviation (n ≥ 3)

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35 **Table SI-3** HCBD concentrations in different compartments in blank plant controls.

Day of sampling	Leaf (ng/g)	Stem (ng/g)	Root (ng/g)	Solution (ng/mL)
1	6.5 ± 4.7 ^a	12 ± 6	7.0 ± 1.9	0.026 ± 0.018
2	6.6 ± 6.0	15 ± 13	9.2 ± 1.1	0.038 ± 0.044
3	3.3 ± 0.8	5.7 ± 1.4	12 ± 6	0.042 ± 0.051
4	5.0 ± 1.0	6.7 ± 2.2	11 ± 1	0.040 ± 0.017
5	6.4 ± 3.6	6.9 ± 1.9	13 ± 3	0.038 ± 0.021
7	4.8 ± 1.6	6.2 ± 1.1	14 ± 6	0.034 ± 0.011
11	4.6 ± 0.5	6.1 ± 1.1	15 ± 2	0.055 ± 0.037
15	3.0 ± 1.4	5.1 ± 0.2	13 ± 2	0.046 ± 0.010

36 ^a Mean value ± standard deviation (n ≥ 3)

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47 **Table SI-4.** HCBD concentrations in different compartments in exposure groups.

Day of sampling	Leaf (ng/g)	Stem (ng/g)	Root (ng/g)	Solution (ng/mL)
1	28 ± 10 ^a	329 ± 398	10453 ± 431	7.8 ± 0.4
2	20 ± 3	423 ± 31	21564 ± 4784	15 ± 3
3	59 ± 9	504 ± 57	36760 ± 5091	19 ± 2
4	55 ± 19	452 ± 257	40846 ± 9113	20 ± 1
5	33 ± 14	602 ± 342	28324 ± 4846	18 ± 1
6				21 ± 1
7	25 ± 9	576 ± 288	52578 ± 11577	25 ± 3
8				15 ± 3
9				21 ± 2
10				20 ± 2
11	25 ± 9	1364 ± 461	89835 ± 4610	19 ± 3
12				17 ± 1
13				21 ± 5
14				23 ± 4
15	36 ± 2	1289 ± 382	116287 ± 17416	24 ± 9

48 ^a Mean value ± standard deviation (n ≥ 3)

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53 **Table SI-5.** Mass balance of HCBD in the hydroponic exposure experiment on day 15.

Leaf (ng)	Stem (ng)	Root (ng)	Solution (ng)	Volatilization (ng)	Spiking amount (ng)	Total recovery (%)
8.6 ± 0.3^a	52 ± 5	$3291 \pm$ 1404	$12904 \pm$ 232	$46665 \pm$ 3495	67500	93 ± 3

54 ^a Mean value \pm standard deviation ($n \geq 3$)

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