

Accepted Manuscript

Degradation of triclosan by chlorine dioxide: Reaction mechanism, 2,4-dichlorophenol accumulation and toxicity evaluation

Qingsong Li, Jianwei Yu, Weizhu Chen, Xiaoyan Ma, Guoxin Li, Guoyuan Chen, Jing Deng



PII: S0045-6535(18)30914-7

DOI: [10.1016/j.chemosphere.2018.05.065](https://doi.org/10.1016/j.chemosphere.2018.05.065)

Reference: CHEM 21397

To appear in: *ECSN*

Received Date: 3 January 2018

Revised Date: 10 May 2018

Accepted Date: 12 May 2018

Please cite this article as: Li, Q., Yu, J., Chen, W., Ma, X., Li, G., Chen, G., Deng, J., Degradation of triclosan by chlorine dioxide: Reaction mechanism, 2,4-dichlorophenol accumulation and toxicity evaluation, *Chemosphere* (2018), doi: 10.1016/j.chemosphere.2018.05.065.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1 **Degradation of triclosan by chlorine dioxide: reaction mechanism,**
2 **2,4-dichlorophenol accumulation and toxicity evaluation**

3 Qingsong Li^a, Jianwei Yu^{b,e,*}, Weizhu Chen^c, Xiaoyan Ma^d, Guoxin Li^a, Guoyuan Chen^a, Jing Deng^d

4 ^a Water Resources and Environmental Institute, Xiamen University of Technology, Xiamen 361005,
5 China.

6 ^b Key Laboratory of Drinking Water Science and Technology, Research Center for Eco-Environmental
7 Sciences, Chinese Academy of Sciences, Beijing, 100085, China.

8 ^c Third Institute of Oceanography, State Oceanic Administration, People Republic of China, Xiamen
9 361005, China.

10 ^d College of Civil Engineering and Architecture, Zhejiang University of Technology, Hangzhou
11 310014, China

12 ^e University of the Chinese Academy of Sciences, Beijing 100019, China

13 Qingsong Li **E-mail:** leetsingsong@sina.com

14 Weizhu Chen **E-mail:** chen1050@gmail.com

15 Xiaoyan Ma **E-mail:** mayaner620@sohu.com

16 Guoxin Li **E-mail:** 2011111701@xmut.edu.cn

17 Guoyuan Chen **E-mail:** chengy@xmut.edu.cn

18 Jing Deng **E-mail:** zjut_djing@163.com

19

20 Corresponding author: Jianwei Yu at Key Laboratory of Drinking Water Science and Technology,
21 Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, 100085,
22 China. **E-mail:** jwyu@rcees.ac.cn, **Tel:** 86-010- 628499149, **Fax:** 86-010- 6292541

23

24

25

26

Download English Version:

<https://daneshyari.com/en/article/8850987>

Download Persian Version:

<https://daneshyari.com/article/8850987>

[Daneshyari.com](https://daneshyari.com)