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“CLEANER PRODUCTION INITIATIVES AND CHALLENGES FOR A SUSTAINABLE WORLD”

Mitigating actions for the Drug Industry in the Comarca de Londrina-PR, Brazil: Environmental Impact of Waste Dump in Water Bodies

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Abstract

The aim of this work is to analyse the consequences of disposing of pharmaceuticals in water bodies in the city of Londrina, in the light of the economic theory of the environment. The study focuses on the analysis on the impact of pharmaceutical industry production, in particular the Group antibiotics and hormones and its different forms of disposition in the environment. The research makes a cut for the processes used in sewage treatment plants (ETE), proposing measures that solve problem for some processes already tested for drugs. The results leads to the conclusion that the pharmaceutical industry has an important role in the process of problem minimize making use of environmental management system (EMS), evaluating control equipment and treatment system, elaborating programs dump of follow-up and monitoring of impacts, making use of waste treatment centre (CTR) and reverse logistics. The use of agricultural waste as bioadsorventes is efficient and economically viable alternative, minimizing environmental impacts.

Keywords: *Environmental impact. Water bodies. Pharmaceutical industry.*

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