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Recycling of wastewaters resulted from production process of antibiotic drugs

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Recycling of wastewaters resulted from production process of antibiotic drugs is a set of complicated factors which are developed because of gradual evolution of organisms and components of the earth surface. This set which consist of water, air and earth, not only guarantee natural life of all the organisms and influence them, but also affects their activity. Today, industrial activities which are developed increasingly to remove human needs, on the one hand, use national source and natural resource of the earth boundlessly and on the other hand leave several wastages and residues resulted from their activities. So optimizing the use of resources and increasing exploitation efficiency of the resources and recycling the residues of industrial activities are essential and inevitable responsibilities for life permanence. Water that is one of the most important natural resources and challenge of today and future life on the earth, Plays an important role in the industrial activities and therefore we must be careful about the optimizing and recycling of wastewater resulted from industrial activities. In pharmaceutical industries, recycling wastewater contaminated with antibiotic is among important environmental activities which not only economize water resources, but also reduce destruction and contamination of soil and water resources by these wastewaters contaminated by antibiotics. In addition, wastewater contaminated with antibiotics do not decompose in the environment naturally, and necessarily must be refined and eliminated under special conditions. In this essay, we focus on the ways of repelling and recycling the wastewater produced in the production process of pharmaceutical products and study different aspects of this process considering different methods of repelling and also the quality and quantity of water resulted from this process.

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