

Ecotoxicity Study of Spent Adsorbents in Storage

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Keywords: spent adsorbents; waste oil and fat production; phytotesting; ecotoxicity.

Abstract: The necessity of assessing the ecotoxicity of spent adsorbents of oil and fat industries in the process of their storage for the choice of disposal method is justified. It was found that the peroxide number of spent oil and fat adsorbents for three months of storage under normal conditions increases by 20 times, which sharply increases their toxicity. At the time of formation and the first day of storage, this waste is slightly toxic, after one month of storage, toxicity increases to “medium”, and after four months it increases to “very high” and does not change further (study period is one and a half years). Storage conditions significantly affect the rate of peroxide formation. Placing oxidized oil and fat adsorbents in environmental objects requires additional measures to reduce their toxicity.