



ENVIRONMENTAL POLLUTION WITH VOCs AND POSSIBILITIES FOR EMISSION TREATMENT

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Abstract

Volatile organic compounds (VOCs) constitutes an important class of environmental pollutants, which, together with other contaminants as NO_x, SO_x, CO, NH₃, CO₂ etc. participate in degradation of atmosphere and exhibit a potential risk for human health. VOC emissions may be generated in more than 25 percentages through the use of solvents in different industrial or house holding activities. For applying a certain plan concerning the pollution reduction, any user of organic solvents containing VOCs should accomplish a proper management of these ones, such as the concentrations of the pollutants to frame within the limits regulated by the European legislation. The pollutant emission containing VOCs may be subjected to a treatment process, established concordant to their characteristics and provenience, as well as to the possibility and the cost of implementation in the technological process.

In this paper, a scheme for trapping and treatment of the gas emissions resulted from the activities related to degreasing in organic solvents containing VOCs is presented.

Key words: VOC, environmental pollution, solvents, emissions, catalytic incineration

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