

TITLE

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ABSTRACT

The arquitectonic paints are one of the sources of volatile organic compound's emission (VOCs) which affect the air quality indoors. These compounds can cause harm to people's health such as respiratory diseases, neurotoxic and carcinogenic effects, among other things. Besides, they contribute to tropospheric ozone's formation. This study mainly aims at identifying the difference on VOC's emission of four arquitectonic paints seeking to inform the users of these products about the problems they can cause to the environment, occupational health and population's welfare. The results show that paints which contain organic solvent release 520 times more VOCs than those which contain water - low odour, compared in liquid condition. These results show that a wide discussion about this subject must be started in order to reduce these emissions that can cause damage to the society.

Keywords: VOCs, arquitectonic paints, tropospheric ozone, indoor air quality.