

Survey on Phthalate Esters of Marketed Cosmetics Perfume and Nail Polishes in Taiwan Area

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ABSTRACT

In order to investigate the quality of marketed cosmetics perfume and nail polish, 87 samples were randomly collected from cosmetics stores, drug stores or pharmacies by local health bureaus in Taiwan area from January to October, 2009. These samples were analyzed for four kinds of phthalate esters, including DBP, BBP, DEHP and DNOP by gas chromatography-mass spectrometry. The result showed that the level of phthalate esters in 13 samples was higher than the announced level of 100 ppm by Department of Health. In addition, 29 samples (33.3%) violated the labeling regulation requirements.

Key words: cosmetic, perfume, nail polishes, phthalate esters, dibutyl phthalate, benzyl butyl phthalate, di-(2-ethylhexyl) phthalate, di-n-octyl phthalate, GC/MS

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