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## **RISK OF EXPOSURE TO ASBESTOS IN CASE OF THE MECHANICAL DEGRADATION OF SOME ASBOCEMENT COMPOSITES**

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### **Abstract**

The hereby article presents a part of the results of the research made by the author during his PhD degree preparation with respect to asbestos and plastics wastes recycling in the form of composite with polymeric matrix, respectively the toxicological tests performed on the new product. In this respect, three categories of tests were made based on complex and modern analysis methodologies, with high results accuracy: spectral analysis of the wear wastes, morphological analysis of the wear wastes and analysis of other air samples from the impact area. The results of the investigations performed have denied the supposed toxicity of asbestos in the conditions of its embedding in a polymeric mass and could thus represent important arguments in the direction of making the applicable legislation flexible in the sense of allowing unrestricted sale of the resulted product.

*Key words:* asbocement, composite, polymeric matrix, recycling, waste

*Received: October, 2011; Revised final: October, 2011; Accepted: October, 2011*

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