

NANOMATERIALS AND SAFETY AT WORK

Ljiljana Trumbulović¹, Nataša Smiljanić², Marija Nikolić²

¹ College of Applied Studies Uzice, Sveti Sava Square 34, Uzice, Serbia,

² Medical school Užice,

(ljiljanatrumbulovic@gmail.com)

Abstract: Nanotechnology is research and technology development at the atomic, molecular and macromolecular level in the range 1 – 100 nm size. For the next fifteen years it is that about two million workers in the world be hired to support the production of nanotechnology. Nanomaterials are now used in electronics, biomedical, pharmaceutical, cosmetics, energy, etc. as a catalytic material. So far, not enough known possible adverse effects of nanoparticles on human health. In no country there are no standards for MPC nanoparticles in the workplace.

The aim of this paper is to increase safety in the work of employees handling nanomaterials, and reduce the risk of damage to health of employees.

Key words: nanomaterials, nanotechnology, health risk