



P52 : Effects of Biocidal Products Content in Treated Articles for Human Health

Saliha Akdoğan, Tülin Gönültaş, Mehmet Gökdeniz, Dr. Muhsin Akbaba
Çukurova University Medical Faculty, Department of Public Health

INTRODUCTION

Biocidal products have been subjected to permission in directive 98/8/EC regulation aimed at increasing protection level of environmental and human health and efficiency in practice have been done in accordance with the terms of references numbered 528/2012/EU; provisions regarding treated articles have been included and definition of treated articles has been done for the first time.

TREATED ARTICLE

It is that plastic, textile, wooden, leather or other shaped materials are processed by one biocide or more on the purpose of protection of their chemical and physical structure, prevention of aesthetic deformation, minimizing risk of microbial infection.

Many products gain specific functions or protective features by being processed by biocides. Water based paints and many products have been subjected to be processed by biocides for different purposes in woolen carpets, textile products, kitchen and bathroom products, wooden and leather products, PVC and electricity cables. Biocidal active materials used for treated articles: Silver ions, BIT(Benzoisothiasolinone), Bronopol, Nanosilver, Ethanol, Triclosan, MIT(Methylisothiasolinone), iodine and ingredients, etc...

EFFECTS FOR HUMAN HEALTH

According to European Commission Health And Consumers Directorate; common usage of Triclosan has caused important contaminations(e.g; breast milk contamination). According to a research; triclosan has allergic potential.

MIT's allergic and cytotoxic effects are identified in a research. MIT has been accepted as contact allergen of 2013 by American Contact Dermatitis Association depending upon usage increase in isothiasolinone based protectors in recent years.

In a research it is stated that silver has cytotoxic and genotoxic side effects

RESULT

Biocides inside treated articles are used in all parts of our daily life. Biocides should be subjected to certain restrictions to decrease the health effects.

Keywords: Biocides, Human Health, Treated article