| 金属元素   | 主要危害  |
|--------|---|
| 汞 (Hg) | 根据世界卫生组织的资料显示,化妆品中的无机汞会造成肾功能损害、皮疹、皮肤变色、结疤、焦虑、抑郁症、精神病、周围神经病变、抗感染能力降低等'。  |
| 砷 (As) | 砷作用于神经系统、刺激造血器官,长期接触砷会引发细胞中毒和<br>毛细管中毒、高血压、神经机能障碍,还有可能诱发恶性肿瘤 <sup>2</sup> 。人<br>体暴露实验显示,越来越多的关于肺、肝、心脏的疾病、肺癌以及<br>婴儿夭折与砷的接触有关 <sup>3</sup> 。儿童智力低下可能与砷的暴露有关 <sup>4</sup> 。 |
| 铅(Pb)  | 铅是已知神经毒素,会影响人的感官、行动、认知和行为,包括学习障碍、难以集中注意力等;还可能影响儿童协调、视觉、空间和语言能力,以及贫血5。幼年接触铅所造成的健康危害会持续到青少年和成年阶段6。美国疾病控制和预防中心研究指出,儿童血液中的铅含量安全值应该为零7,对铅的接触不存在安全阈值8。                          |

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<sup>&</sup>lt;sup>1</sup> World Health Organization (2011) Mercury in skin-lightening products http://www.who.int/ipcs/assessment/public health/mercury flyer.pdf

<sup>&</sup>lt;sup>2</sup> Chen Y, Parvez F, Gamble M, Islan T, Ahmed A, Argos M, Graziano JH, Ahsan H (2009) Arsenic exposure at low-to-moderate levels and skin lesions, arsenic metabolism, neurological functions, and biomarkers for respiratory and cardiovascular diseases; review of recent findings from the Health Effects of Arsenic Longitudinal Study (HEALS) in Bangladesh, Toxic Appl Pharmacol 239:184 - 192

<sup>&</sup>lt;sup>3</sup> States JC, Barchowsky A, Cartwright IL, Reichard JF, Futscher BW, Lantz RC (2011) Arsenic toxicology: Translating between experimental models and human pathology, Environ Health Perspect doi:10.1289/ehp.1103441 http://ehp03.niehs.nih.gov/article/citationList.action;jsessionid=766E1CABBFF4B6A6B60EE9F5CF80F924?article URI=info%3Adoi%2F10.1289%2Fehp.1103441

<sup>&</sup>lt;sup>4</sup> 3Dong J. Su SY (2009) The association between arsenic and children's intelligence: a meta-analysis, Biol Trace Elem Res 129:88 - 93

<sup>&</sup>lt;sup>5</sup> 4U.S. Environmental Protection Agency (2006) Air Quality Criteria for Lead (September 29,

<sup>&</sup>lt;sup>6</sup> 5U.S. Environmental Protection Agency (2006) Air Quality Criteria for Lead (September 29, 2006)

<sup>&</sup>lt;sup>7</sup> 6US Centers for Disease Control (2005). Prevention of lead poisoning in young children: a statement by the Centers for Disease Control and Prevention. Atlanta, GA USA: CDC; 2005.

<sup>&</sup>lt;sup>8</sup> 14 Basic Information about Lead in Drinking Water