

ABSTRACT

Title: Study on Respirator Protective Equipment (Dust Mask) Used In Malaysian Workplace

Name: Baderin Bin Osman

Email: baderin [at] niosh. com. my

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Abstract:

Personal Protective Equipment (PPE) including Respiratory Protective Equipment (RPE) is subject of evaluation against the relevant basic safety and health requirements. Malaysia legislation Occupational Safety and Health Act 1994 (OSHA 1994) under Use and Standard of Exposure Chemical Hazardous to Health (USECHH 2000) regulation state all the Personal Protective Equipment must be approved and evaluate before it can be used. The purpose of this study is to undertake market surveillance testing of respirators claiming compliance with Malaysia Standard. The main factor of purchase Respiratory Protective Equipment (RPE) used among the workers in Malaysia was identified via questionnaire and the RPE brand is the most factor to purchase. Efficiency of the respirator varies with different types of brand and design were identified and further investigated through laboratory testing. The testing will according Malaysia standard (MS2323:2010) respiratory protective devices - filtering half masks to protect against particles - requirements, testing, marking. Base on the testing performance, the RPE was rank base on Likert scale. The top ranking of three group of RPE design which is cup and valveless, cup and valved and fold and valveless are ID no 5, ID no 28 and ID no 6. This study will help workers in Malaysia find an appropriate respirator that can protect them from the hazard that exists during the work.