

# Kajian Risiko Kesehatan Terkait Penggunaan Bahan Kimia pada UMKM Alas Kaki di Ciomas Kabupaten Bogor Tahun 2019 = Chemical Health Risk Assessment at MSMEs in Footwear Manufacturing Sector in Ciomas-Bogor Year 2019

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## Abstrak

Usaha Mikro Kecil Menengah (UMKM) pembuatan alas kaki berperan penting dalam penyerapan tenaga kerja di Indonesia, namun sayangnya peran UMKM tersebut masih belum diimbangi dengan perlindungan Keselamatan dan Kesehatan Kerja (K3) kepada para pekerjanya. Setiap hari para pekerja di UMKM pembuatan alas kaki terpajan dengan berbagai bahan kimia baik melalui inhalasi maupun dermal yang dapat menyebabkan gangguan pernapasan, iritasi mata dan kulit. Penelitian ini bertujuan untuk menganalisis risiko kesehatan terkait penggunaan bahan kimia pada pekerja di UMKM pembuatan alas kaki di Ciomas Kabupaten Bogor. Penelitian ini dilakukan di tiga UMKM pembuatan alas kaki di Ciomas – Bogor dengan menggunakan desain penelitian cross sectional dan menggunakan metode Chemical Hazard Risk Assessment dari Department of Safety and Health Malaysia Tahun 2018. Bahan kimia yang dianalisis dibatasi hanya untuk benzene dan toluene. Teknik pengumpulan data dilakukan dengan mix-method, di mana tahap rekognisi bahaya dan evaluasi pajanan melalui dermal dilakukan secara kualitatif, sementara evaluasi pajanan melalui inhalasi dilakukan secara kuantitatif berdasarkan pengukuran personal air sampling. Hasil penelitian menunjukkan bahwa level risiko bahan kimia melalui pajanan inhalasi termasuk kedalam level risiko moderat dan tinggi, di mana pajanan inhalasi yang tinggi dapat menyebabkan efek karsinogenik. Sementara melalui pajanan dermal masuk kedalam level risiko moderat, dengan efek kesehatan yang dapat terjadi yaitu, iritasi kulit dan mata. Tingginya pajanan yang diterima pekerja di UMKM alas kaki diperburuk dengan minimnya pengendalian yang dilakukan UMKM terhadap pajanan bahan kimia.

.....Micro Small Medium Enterprises (MSME's) in footwear manufacturing sector contribute to provide jobs in Indonesia, but the role is still not balanced with the protection of Occupational Health and Safety (OHS) for workers. Workers are daily exposed to extensive range of potential chemical occupational hazards either through inhalation or dermal which may lead to respiratory problem, eye and skin irritation. The research aimed to analyze health risks related to the use of chemicals among workers in MSME's in footwear manufacturing. This research was conducted in three MSME's in Ciomas - Bogor using cross sectional design and the Chemical Health Risk Assessment method by the Department of Safety and Health Malaysia Year 2018. The chemicals analyzed were limited to benzene and toluene. The data collection technique was carried out using mixmethod: qualitative method for hazard recognition and evaluation of exposure through dermal; and quantitative method for evaluation of exposure through inhalation, based on measurement of personal air sampling. The results showed that the level of risk of chemicals through inhalation exposure is included to the level of moderate and high risk, where high exposure can cause carcinogenic effects. While through dermal exposure is included to the level of moderate risk, with health effects that can occur, namely, skin and eye irritation. The high exposure received by workers in MSME footwear is exacerbated by the lack of control by MSMEs on exposure to chemicals.