Penilaian Risiko Kesehatan Bahan Kimia Laboratorium Petroleum X Jakarta Timur 2023 = Chemical Health Risk Assessment X Petroleum Laboratory East Jakarta 2023

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Abstrak

Bahan kimia meliputi bermacam – macam bahan organik dan non organik yang dapat mempengaruhi kesehatan dalam waktu pendek maupun panjang. Salah satu bidang pekerjaan yang industri yang menggunakan bahan kimia dalam operasionalnya adalah laboratorium. Semakin meningkatnya jumlah sampel uji akan meningkatkan pajanan pajanan bahan kimia yang akan berdampak pada kesehatan pekerja. Tujuan dari penilitian ini adalah melakukan penilaian risiko kesehatan bahan kimia pada pajanan inhalasi dan dermal di Laboratorium Petroleum X Jakarta Timur tahun 2023. Penelitian ini dilakukan pada bulan April hingga Juni 2023 dengan menggunakan pendekatan kualitatif mengacu pada Manual of Recommended Practice on the Assessment of The Health Risks Arising from the Use of Chemicals Hazardous to Health at the Workplace 3rd Edition dari Department of Occupational Safety and Health, Ministry of Human Resources, Malaysia. Hasil penilaian risiko kesehatan rute pajanan inhalasi untuk bahan kimia dari seluruh tahap pengujian bervariasi dari rendah, sedang dan tinggi. Namun di dominasi oleh risiko sedang. Sementara, hasil penilaian risiko kesehatan rute pajanan dermal untuk seluruh bahan kimia dari seluruh tahap pengujian didominasi dengan risiko tinggi. Perlu dilakukannya pemantauan terhadap pengendalian yangs udah ada dan pengendalian tambahan berdasarkan hierarki pengendalian untuk bahan kimia dengan risiko tinggi dan kecukupan pengendalian yang belum memadai

.....Chemicals are a wide range of organic and inorganic compounds that might have a short or long term impact on health. The laboratory is an industrial work sector that utilises chemicals in its activities. The increased quantity of test samples will increase workers' exposure to chemical compounds, which will have an effect on their health. The goal of this research was to assess the health hazards of chemicals through inhalation and skin exposure at the X Petroleum Laboratory East Jakarta in 2023. This study was carried out from April to June 2023 utilizing a qualitative method using the Manual of Recommended Practice on the Assessment of Health Risks Arising from the Use of Hazardous to Health Chemicals in the Workplace, 3rdEdition from Department of Occupational Safety and Health, Ministry of Human Resources, Malaysia. The health risk assessment scores for compounds via the inhalation route ranged from low to high across all levels of testing. However, Mod risk dominates. Meanwhile, high hazards dominated the results of the dermal exposure route health risk assessment for all compounds from all phases of testing. For high-risk chemicals and insufficient control adequacy, it is required to monitor current controls and implement new controls based on the control hierarchy.