

Analisis Risiko Kesehatan Pekerja Terpajan TSP, PM10, PM2,5, Cd, Si, As, dan Pb pada Industri Pengolahan Batubara di Pelabuhan PT X Kalimantan Selatan Tahun 2012

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Abstrak

Penelitian ini bertujuan untuk menilai risiko kesehatan pekerja akibat pajanan TSP, PM10, PM2,5, Cd, Si, As, dan Pb yang dilakukan pada pengukuran outdoor, indoor, dan respirable personal lokasi pelabuhan dan membandingkannya dengan non pelabuhan. Penelitian ini bersifat deskriptif analitik dengan menggunakan desain penelitian cross sectional. Berdasarkan hasil penelitian diperoleh hasil karakteristik risiko (RQ) debu outdoor TSP dan PM10 kurang dari 1, sementara PM2,5 lokasi Hopper 4 lebih dari 1. Untuk RQ debu indoor PM2,5 pada lokasi Hopper 6 dan barging lebih dari 1, sedangkan non pelabuhan RQ kurang dari 1. Untuk RQ personal respirable pada lokasi Hopper 6 dan genset lebih dari 1, sementara non pelabuhan kurang dari 1. Untuk unsur non karsinogenik Cd, As dan Pb RQ kurang dari 1, sementara unsur karsinogenik As dan Cd nilai ECR kurang dari E-4 dan Silica nilai ECR lebih dari E-4. Kata kunci : TSP, PM10, PM2,5, Cd, Si, As, dan Pb, karsinogenik, nonkarsinogenik, analisis risiko, karakteristik risiko

The purpose of this study is to analyze the occupational health risks of workers exposed to TSP, PM10, PM2, 5, Cd, Si, As, and Pb that were carried out on measurements in outdoor, indoor, and personal respirable port location and compare it to the non-port. This research is a descriptive analytic cross-sectional research design. Based on this research, the results are risk characteristics (RQ) outdoor TSP and PM10 dust is less than 1, while PM2,5 located at Hopper 4 is more than 1. For indoor dust RQ PM2,5 located at Hopper 6 and barging more than 1, while on the non-port RQ is less than 1. For personal respirable RQ located at Hopper 6 and genset are more than 1, while in the non port is less than 1. For non-carcinogenic elements Cd, As and Pb RQ are less than 1, while the carcinogenic element As and Cd, value of ECR is less than E-4 and for Silica value of ECR is more than E-4. Key Word: TSP, PM10, PM2,5, Cd, Si, As, dan Pb, carcinogenic, non-carcinogenic, risk analysis, risk characterization