PROCESSING OF INDUSTRIAL LIQUID WASTE WITH DISTILLATION METHOD

ABSTRACT

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Research has been carried out on the method of processing wastewater in the screen printing industry using the distillation method. The purpose of this research is to develop a simple method of treating waste screen printing. The process of distillation is carried out for 4 hours at a temperature of 100 ^{o}C with variations in the distillate residence for 0, 1, 2, 8, 9, and 10 days. This study aims to determine the effect of distillate residence time on COD, TSS, and pH levels. From the analysis carried out, the concentrations of COD, TSS, and pH before the distillation process were 2298,26 mg/L, 400 mg/L, and 7,1. The results showed the efficiency of decreasing COD levels by 83,17%. Whereas, the average TSS levels and pH obtained were 10 mg/L and 7,03 respectively. The conclusions obtained in this study are the processing of liquid screen printing industry using the distillation method can reduce the levels of COD, TSS, and pH.

Keywords: screen printing waste, distillation, COD, TSS, pH