

Penilaian konsekuensi pelepasan bahan kimia dari tangki penyimpanan Liquefied Petroleum Gas (LPG) di PT. LMI tahun 2012 = Consequence assessment of chemical release from Liquefied Petroleum Gas (LPG) storage tank at PT LMI in 2012

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Abstrak

Penelitian ini menilai konsekuensi pelepasan bahan kimia dari tangki penyimpanan Liquefied Petroleum Gas (LPG) bertekanan pada PT. LMI. Penelitian ini adalah kuantitatif. Simulasi pelepasan bahan kimia menggunakan piranti lunak ALOHA (Areal Locations of Hazardous Atmospheres) berdasarkan data primer dan sekunder pada operasi normal. ALOHA memberikan hasil dalam berbagai jangkauan jarak dispersi, kebakaran dan ledakan. Setiap jangkauan jarak diklasifikasikan menjadi tiga kategori: merah, oranye dan kuning berdasarkan tingkat keparahan. Hasil penelitian ini menunjukkan sekolah, klinik medis, pabrik, dan rumah-rumah di sekitar PT. LMI menjadi populasi berisiko tinggi terkena dampak pelepasan bahan kimia dari tangki penyimpanan LPG.

.....This study assess the consequences of the chemical release from the pressurized Liquefied Petroleum Gas (LPG) storage tank at PT. LMI. This study is quantitative. Simulation of release using ALOHA (Areal Locations of Hazardous Atmospheres) software based on primary and secondary datas on the normal operation. ALOHA give result in a distance range of dispersion, fire and explosion. Each distance range is classified into three categories: red, orange and yellow based on the level of severity. These study's result is indicate that schools, medical clinic, factories, and homes around PT. LMI being the high-risk population affected by the release of chemicals from the LPG storage tank.