

## ABSTRAK

Pengurangan risiko tinggi terjadinya bencana industri menjadi hal penting seiring dengan perkembangan industrialisasi skala besar, baik industri manufacturing maupun jasa *storage tank terminal*. Bencana industri muncul akibat pengelolaan bahaya dan risiko industri tidak sesuai dengan manajemen penanggulangan bencana industri. Bagian yang terpenting dari pengelolaan bahaya dan risiko adalah adanya identifikasi bahaya dan penilaian risiko. Tujuan penelitian ini adalah untuk mengidentifikasi bahaya, menganalisa penilaian risiko, dan menganalisa pengelolaan bahaya dan risiko pada operasional industri kimia untuk pengurangan risiko terjadinya bencana industri. Jenis dan desain penelitian disusun secara deskriptif menggunakan metode penelitian semi kualitatif yang berguna melihat secara detil dan mendalam bagaimana analisa risiko bencana industri, khususnya pada industri kimia dengan menggunakan metode *hazard identification and risk assessment*. Hasil penelitian menunjukkan bahwa penilaian risiko yang memiliki tingkat risiko tinggi dalam industri kimia adalah bahaya kebakaran dan bahaya terciprat bahan kimia cair pada aktifitas *unloading dan loading* di *terminal jetty* dan produksi. Penelitian ini merekomendasikan kewajiban manajemen perusahaan mengimplementasikan pengelolaan bahaya dan risiko operasional industri kimia sesuai dengan regulasi yang telah ditetapkan serta menyusun dan menerapkan *Standard Operating Procedure* (SOP) berdasarkan identifikasi bahaya dan penilaian risiko.

**Kata Kunci:** Bencana industri kimia, *hazard identification and risk assessment*.



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## **ABSTRACT**

*Reducing the high risk of industrial disasters becomes important along with the development of large-scale industrialization, both the manufacturing industry and storage tank terminal services. Industrial disasters arise due to the management of industrial hazards and risks that are incompatible with the management of industrial disaster management. The most important part of hazard and risk management is hazard identification and risk assessment. The purpose of this study is to identify hazards, analyze risk assessments, and analyze hazard and risk management in chemical industry operations to reduce the risk of industrial disasters. The type and design of the study were arranged descriptively using semi-qualitative research methods that are useful to see in detail and in-depth how industry disaster risk analysis, especially in the chemical industry using hazard identification and risk assessment methods. The results showed that the risk assessment that has a high level of risk in the chemical industry is the danger of fire and the danger of splashing liquid chemicals in unloading and loading activities at the jetty and production terminals. This study recommends the obligation of company management to implement the management of hazards and operational risks of the chemical industry in accordance with established regulations and to compile and implement Standard Operating Procedures (SOPs) based on hazard identification and risk assessment.*

**Keywords:** *Chemical industry disaster, hazard identification and risk assessment.*

