

DAFTAR PUSTAKA

- Air Liquide (2022) *Safety Data Sheet Hydrogen*, 1–11.
- American Institute of Chemical Engineers (1994). *Dow's Fire & Explosion Index Hazard Classification Guide (7th ed.)*. American Institute of Chemical Engineers.
- American Petroleum Institute. (2020). *Pressure-relieving and depressuring systems (API Standard 521, 7th ed.)*.
- American Petroleum Institute. (2024). *Management of hazards associated with location of process plant permanent buildings (API Recommended Practice 752, 4th ed.)*.
- Chemical accident prevention provisions, 40 C.F.R. pt. 68 (2026).
- Adhiksana, I. A., Eka Megawati, S.Pd.Si., M. P., Meita Rezki Vegatama, S.Pd., M.Pd. Yuniarti, S.T., M. E., Dr. Andi Jumardi, S.T., M. T., Prof. Dr. Ramli Thahir, S.T., M.T. Ir. Yuli Patmawati, S.T., M. Eng, P. D., & MENARA. (2025). *Buku Ajar Penyimpanan Dan Penanganan Bahan*.
- Amaechi, C. V., Hosie, G., & Reda, A. (2023). *Review on Subsea Pipeline Integrity Management : An Operator's Perspective*. 1–12.
- Andini, F. N., Anggraeiny, R., & Susilowati, T. (2020). Upaya Dinas Pemadam Kebakaran Dalam Pencegahan dan Penanggulangan Kebakaran Di Kecamatan Samarinda Ulu Kota Samarinda. 8(1), 8978–8990.
- Cetinyokus, S. (2024). *Determination of Possible Industrial Accident Effects on A Hydrogen Storage Tank in A Fuel Cell Production Facility*.
- Ekawati, R., Fattah, D. A., Paramitha, A., Abdillah, I., & Wijayanti, P. (2022). Karakteristik kimia milkswit dan krimbrownsuit : “ inovasi produk olahan berbahan baku *palm kernel oil* . ” 16(1), 113–122.

- F. Pe'neau, Pedroa, G., Oshkaia, P., P.Be'nardc, & Djilalia, N. (2009). *Transient Supersonic Release of Hydrogen From A High Pressure Vessel: A Computational Analysis*. 34, 5817–5827.
- Froeling, H. A. J., Dröge, M. T., Nane, G. F., & Van Wijk, A. J. M. (2021). *Quantitative Risk Analysis of A Hazardous Jet Fire Event for Hydrogen Transport in Natural Gas Transmission Pipelines*. *International Journal of Hydrogen Energy*, 46(17), 10411–
- Ghadiani, H., Farhat, Z., Alam, T., & Islam, A. (2024). *Assessing Hydrogen Embrittlement in Pipeline Steels for Natural Gas-Hydrogen Blends: Implications for Existing Infrastructure*. 5, 375–393.
- Guibaud, A. (2025). *Hydrogen Processing Plant Failures Mostly Linked to Design Flaws , Not Hydrogen Itself , Study Finds*.
- Guo, C., Jiang, J., Zhang, B., & Lou, F. (2025). *Energy A Study on the Leakage Consequence and Risk Analysis of Hydrogen-Blended Natural Gas Pipeline in Different Failure Modes*. *International Journal of Hydrogen Energy*, 134(January), 100–112.
- Guo, Youwei, Guoing, X., Lingyuan, W., Chao, C., Hongbo, D., Hongfu, M., Chu, T., & Yuayuan, L. (2023). *Pool Fire Burning Characteristics and Risks Under Wind-Free Conditions: State-of-the-Art*. *Fire Safety Journal*, 136, 103755.
- Gupta, J. P., Khemani, G., & Mannan, M. S. (2003). *Calculation of Fire and Explosion Index (F&EI) Value for the Dow Guide Taking Cmerahit for the Loss Control Measures*. 16, 235–241.
- Hanifah, D. N., Nugroho, A., & Setiawan, A. (2005). *Quantitative Risk Analysis Kebocoran Hidrogen pada Hydrogent Plant*. 314–319.
- Haonan Chen and Zhanli Mao. (2017). *The Study on the Results of Hydrogen Pipeline Leakage Accident of Different Factors*.
- Hasibuan Hasrul Abdi. (2017). *Penggunaan Kembali Katalis Nikel Bekas untuk Hidrogenasi Minyak Sawit dan Minyak Inti Sawit*. 34, 18–25.

- Hemmer, G., Scientist, C., Heat, H., Development, P., & Safety, P. P. (2023). *Dow Fire & Explosion Index*.
- Inanloo, B., & Tansel, B. (2015). *Explosion Impacts During Transport of Hazardous Cargo: GIS-Based Characterization of Overpressure Impacts and Delineation of Flammable Zones for Ammonia*. *Journal of Environmental Management*, 156, 1–9.
- International Electrotechnical Commission. (2020). *IEC 60079-10-1:2020 Explosive Atmospheres—Part 10-1: Classification of Areas—Explosive Gas Atmospheres*. International Electrotechnical Commission.
- Khan, S., & Mohiuddin, K. (2019). *Evaluating the Parameters of Arcgis and QGIS for GIS Applications Related Papers*. *International Journal of Advance Research in Science and Engineering*, 07(03), 582–594.
- Kudadiri, J. P., Tauviqirrahman, M., Jurusan, M., Mesin, T., Teknik, F., Diponegoro, U., Jurusan, D., Mesin, T., Teknik, F., & Diponegoro, U. (2025). Pengaruh Termal Terhadap Akurasi Hasil Numerik. 13(2), 23–32.
- Lestari, F., Sudiman, D. R., Kamso, S., & Nugroho, Y. S. (2023). Analisis Kesiapsiagaan Bencana Teknologi dari Pabrik X pada Aspek Proyeksi Zona Bahaya. 22(1), 38–45.
- Li, J., Song, F., & Zhang, X. (2024). *A Review on Hazards and Risks to Pipeline Operation Under Transporting Hydrogen Energy and Hydrogen-Mixed Natural Gas*. 9.
- Liu, Y., Qui, Y., Liu, Z., & Lei, G. (2022). *Modeling and Analysis of the Flow Characteristics of Liquid Hydrogen in a Pipe Suffering From External Transient Impact*. *Energies*, 15, 41–54.
- Liu, Y., Wei, J., Lei, G., Lan, Y., & Chen, H. (2018). *Dilution of Hazardous Vapor Cloud in Liquid Hydrogen Spill Process Under Different Source Conditions*. *International Journal of Hydrogen Energy*, 43(15), 7643–7651.

- Luo, Y., & Luo, J. (2024). *Modelling the Consequences of A Liquid Hydrogen Leak Using ALOHA Software: Case Study of A Liquid Hydrogen (UN1966) Tanker Accident*.
- Marková, I., Lauko, J., Osvaldová, L. M., Mózer, V., Svetlík, J., Monoši, M., & Orinčák, M. (2020). Fire Size of Gasoline Pool Fires. *International Journal of Environmental Research and Public Health*, 17(2), 9–11.
- Menteri Ketenagakerjaan Republik Indonesia. (2016). Peraturan Menteri Ketenagakerjaan Republik Indonesia Nomor 37 Tahun 2016 tentang Keselamatan dan Kesehatan Kerja Bejana Tekanan dan Tangki Timbun.
- Menteri Tenaga Kerja Republik Indonesia. (1999). Keputusan Menteri Tenaga Kerja Republik Indonesia Nomor KEP.187/MEN/1999 tentang Pengendalian Bahan Kimia Berbahaya di Tempat Kerja.
- Moh. Erkamim, Iqbal Ramadhani Mukhlis, S.Kom., M.Kom Putra, S.T., M. E., Mirza Adiwarmam, S.T., M. ., Ir. Farouki Dinda Rassarandi, S.T., M.Eng Ir. Nini Apriani Rumata, ST., MT., IPM Erlyna Nour Arrofiqoh, S.T., M.Eng Aditya Rahman KN, S.Si., M.Eng Farikhotul Chusnayah, S.T., M. E., & Nurhikmah Paddiyatu, ST., MT., IAP Dr. Erwin Hermawan, S.Si., M. S. (2021). Sistem Informasi Geografis (Sig) (Teori Komprehensif Sig).
- Mohammadfam, I., & Zarei, E. (2015). *Safety Risk Modeling and Major Accidents Analysis of Hydrogen and Natural Gas Releases : A Comprehensive Risk Analysis Framework*. *International Journal of Hydrogen Energy*, 1–11.
- National Fire Protection Association. (2026). *NFPA 2: Hydrogen Technologies Code*. National Fire Protection Association.
- Nugraha, S., Rusba, K., & Ramdan, M. (2024). Analisis Sistem Proteksi Kebakaran Aktif Di Rumah Sakit Restu Ibu Balikpapan. 10(1), 189–195.
- Oran, E. S., Chamberlain, G., & Pekalski, A. (2020). *Mechanisms and Occurrence of Detonations in Vapor Cloud Explosions*. *Progress in Energy and Combustion Science*, 77.
- PAPSI. (2021). *Palm ' Journal*. II(36).

- Perwitasari, Sumardi, S., & Perdana, I. (2018). Model Dispersi Gas dan Vapor Cloud Explosion pada Kebocoran Outlet Pigtail Tubes Primary Reformer. *Jurnal Rekayasa Proses*, 12(1), 9.
- Priambodo, D., & Purwanto, W. W. (2025). *Safety Investigation of Hazardous Materials Released from the Combined High Temperature Gas Cooled Reactor – Hydrogen Production Plant Using ALOHA Software*. 47(1), 31–38.
- Ridha, A. E., & Hanggara, S.T., M.T, F. D. (2023). Model Area Explosion pada Storage Benzene di Industri Refinery Minyak Bumi (Studi Kasus : PT. PERTAMINA Refinery IV Cilacap). *Jurnal Media Teknik dan Sistem Industri*, 7(1), 10.
- Republik Indonesia. (2012). Peraturan Pemerintah Republik Indonesia Nomor 50 Tahun 2012 tentang penerapan sistem manajemen keselamatan dan kesehatan kerja.
- Republik Indonesia. (1970). Undang-Undang Republik Indonesia Nomor 1 Tahun 1970 tentang keselamatan kerja.
- Septianingrum, N., & Handriyono, R. E. (2021). *Model Dispersi Gas CO dan NOx dari Kegiatan Transportasi di Simpang Lima Kenanten Kota Mojokerto Berdasarkan Model Gauss (Studi Kasus : Jalan Gempol – Mojokerto)*. 1–7.
- Setiawan, A., Hanifah, D. N., Nugroho, A. (2017). Analisis Potensi Dan Dampak Kebocoran Gas Hidrogen Pada Hydrogen Plant Di Industri. 3(2).
- Siregar, S. N. H., & Hasibuan, A. (2024). Dampak Hilirisasi Industri Kelapa Sawit Terhadap Pembangunan Ekonomi Nasional. 939–943.
- Stolen, R., Mikalsen, R. F., & Glansberg, K. (2018). *Heat Flux in Jet Fires Unified Method for Measuring the Heat Flux Levels of Jet Fires*. June, 7–8.
- Susilowati, E., & Lestari, F. (2022). Klasifikasi Area Berbahaya Pada Area Tempat Penyimpanan Gas Hidrogen Di Pt . Xy. 7(1), 80–93.

- Tarigan, K., Barus, A., & Sihombing, J. (2024). *Estimation of Hydrogen Requirements in the Process Hydrogenation in Plant 2#200 Pt. XYZ*. 9211(3), 18–30.
- Telessy, K., Barner, L., & Franziska Holz. (2024). *Energy Repurposing Natural Gas Pipelines for Hydrogen: Limits and Options from A Case Study in Germany*. *International Journal of Hydrogen*. 80(July), 821–831.
- U.S. Environmental Protection Agency. (n.d.). *ALOHA software*. U.S. Environmental Protection Agency.
- Wang, Y., Sun, B., Chu, S., Zhao, T., Li, N., & Zhang, L. (2025). *Study on the Risk Zone of Hydrogen Leak Diffusion in High-Pressure Hydrogen Transmission Pipeline Station Fields*. 1–16.
- Yanto, H., Wijaya, R., & Putra, G. A. (2019). Sistem Informasi Geografis Pemetaan Daerah Rawan Bencana serta Jalur Evakuasi di Padang Pariaman. *Jurnal KomtekInfo*, 6(1), 113–125.
- Yulianto, B., & Tejamaya, M. (2022). Analisa Tingkat Risiko Terjadinya Kebakaran dan Ledakan pada Kegiatan Unloading Bahan Bakar Minyak dari Mobil Tangki di SPBU. *Jurnal Ilmu Kesehatan Masyarakat*, 11(04), 366–379.
- Zavareh, R. D., Dana, T., Roayaei, E., Monavari, S. M., & Jozi, S. A. (2022). *The Environmental Risk Assessment of Fire and Explosion in Storage Tanks of Petroleum Products*. 1–17.
- Zhang, W., Walker, E., & Markfort, C. D. (2025). *Influence of Surface Complexity and Atmospheric Stability on Wind Shear and Turbulence in a Peri-Urban Wind Energy Site*. 1–22.
- Zhang, J., Ren, H., Ren, H., Chai, Y., Liu, Z., & Liang, X. (2023). *Comprehensive Review of Safety Studies in Process Industrial Systems: Concepts, Progress, and Main Research Topics*. 1–34.