DESCRIPTION

Complemented by an estimating tool spreadsheet based on a fixed set of chemicals to assist in risk estimations, *Probability of Ignition of a Released Flammable Mass* converts a "best guess" to a calculated value based on available information and current technology. The text documents and explains the science and background of the technology-based approach. The tool, when populated with appropriate data, yields an estimate of the probability that a defined release of a flammable material will ignite if exposed to an ignition source. This information can be used to make risk assessments with a higher degree of confidence than estimates made before and it provides valuable information for use in the development of a facility's Emergency Response Plan.

ABOUT THE AUTHOR

Since 1985, the [Center for Chemical Process Safety (CCPS)](https://www.aiche.org/centers/ccps) has been the world leader in developing and disseminating information on process safety management and technology. CCPS, an industry technology alliance of the American Institute of Chemical Engineers (AIChE), has published over 90 books in its process safety guidelines and process safety concepts series, and over 100 training modules through its Safety in *Chemical Engineering Education (SACHE)* series.