



Safety Data Sheets: Section 9, Physical and Chemical Properties
for
Process Safety Applications

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Presenter biography

Vahid Ebadat Ph.D., M.Inst.P, MIET, C.Phys. is CEO of Stonehouse Process Safety, Inc. He has worked extensively as a process safety consultant for the chemical, pharmaceutical, food, paper/wood, and other process industries globally for over 30 years. Dr. Ebadat has published many technical articles and papers and is a regular speaker on process safety topics, including dust explosion, static electricity, gas & vapor flammability, and thermal decomposition/self-heating hazard assessment and control. Dr. Ebadat is a member of NFPA 77, NFPA 91, NFPA 654, and NFPA 655 Technical Committees.



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Presentation abstract

The Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012, requires that the chemical manufacturer, distributor, or importer provide Safety Data Sheets (SDSs) for each hazardous chemical to downstream users to communicate information on these hazards. Section 9 of the SDS mandates the inclusion of a minimum set of physical and chemical properties data and the data in this section finds many applications in Process Safety.

This presentation contends that by careful addition of extra data, as permitted under the standard, and with better understanding of the data supplied, significant improvements can be made in the safety of manufacturing processes.

In this presentation we review the minimum data provision in Section 9 and look at how it can be used to improve the safety of industrial processes, we consider what and when additional data should be provided (over and above minimum requirements) and why this is needed. In particular, we cover the inclusion of additional test data relating to the prevention and control of dust fires and explosions in industry.