



# Improving Safety in the Chemical Laboratory: A Practical Guide

From Wiley-Interscience

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## Improving Safety in the Chemical Laboratory: A Practical Guide From Wiley-Interscience

The work of accident prevention in the lab begins with foresight. Discerning "close calls"--near accidents--early enough prevents them from turning into full-fledged mishaps, mishaps that cost time and money, and which could result in injury. Improving Safety in the Chemical Laboratory is an accident prevention handbook for the professional in the lab that shows how to detect and eliminate the causes of dangerous mishaps--and virtually "hazard proof" any lab environment. In unequivocally clear and practical terms, Improving Safety in the Chemical Laboratory, Second Edition offers detailed procedures--from precautionary labeling to simulated drills, safety inspections, and the preparation of a chemical hygiene plan--for the development of a safety-enhanced workplace. Reflecting, in part, the upgraded procedures now mandated by the OSHA Laboratory Standard in the USA, as well as the WHMIS regulations in Canada and the COSHH regulations in the United Kingdom, this newest edition offers unparalleled and up-to-date guidance on the fine points of hazard control, with new added material on managing and handling especially hazardous substances and personal protective equipment:

- \* The 95 percent solution: the list of causes of laboratory accidents
- \* Hazard categories: unsafe acts; unsafe conditions
- \* Selecting and maintaining personal protective conditions
- \* Accident handling
- \* Classes of fuels and fires
- \* Preventing and extinguishing fires
- \* Toxic effects of chemicals
- \* Recognition of and treatment for exposure
- \* Chemical specific safety protocol
- \* Storage of lab chemicals
- \* Safe disposal of hazardous waste
- \* Personal protective equipment in the laboratory
- \* Improving hood performance
- \* Designing safety into new or renovated laboratories

A comprehensive, one-volume safety seminar, Improving Safety in the Chemical Laboratory will provide indispensable guidance to lab supervisors and workers, teachers and students, and anyone involved in the investigation of chemical

accidents and injury. In clear language that quickly details the full range of hidden--and avoidable--laboratory hazards, *Improving Safety in the Chemical Laboratory*, Second Edition offers the most up-to-date, practical, and easy-to-implement lab safety regimen yet available.

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## **Editorial Review**

### **From the Publisher**

Changes to this Second Edition reflect the myriad of improvements in the practice of safety in the chemical lab during the last three years. Changes due to the promulgation of the OSHA Laboratory Standard (U.S.), the Workplace Hazardous Materials Information System (Canada), and the Control of Substances Hazardous to Health Regulations (U.K.) are reflected in this edition. A new chapter on personal protective equipment has been added. Appendices treat the hazards of handling flammable, reactive, corrosive, toxic and physical materials; the precautions that laws and regulations that must be incorporated into lab work; the protection of persons through air monitoring and protective equipment; and the essentials of space design for minimizing laboratory hazards.

### **From the Back Cover**

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## About the Author

About the editor JAY A. YOUNG is a leading chemical consultant specializing in the safe manufacture, use, precautionary labeling, proper handling, and appropriate disposal of chemicals used in industry, the household, and the laboratory. Dr. Young was also the Manager of Technical Publications for the Chemical Manufacturers Association. A distinguished member of the academic community, the author has taught chemistry at Florida State University, Auburn University, Carleton University, in Ottawa, and King's College, in Pennsylvania. He has also been the recipient of the Notre Dame Centennial of Science Award for Significant Contributions to the Improvement of the Teaching of Chemistry, and the Chemical Manufacturers Association National Award for Excellence in the Teaching of Chemistry. He is a fellow of the American Association for the Advancement of Science, a founding member of the American Conference on Chemical Labeling, and a member of the American Chemical Society. Dr. Young is the author of numerous books, including Keys to Chemistry, Chemistry Pre-lab, and Practice in Thinking. Dr. Young received his PhD in physical chemistry from the University of Notre Dame.

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