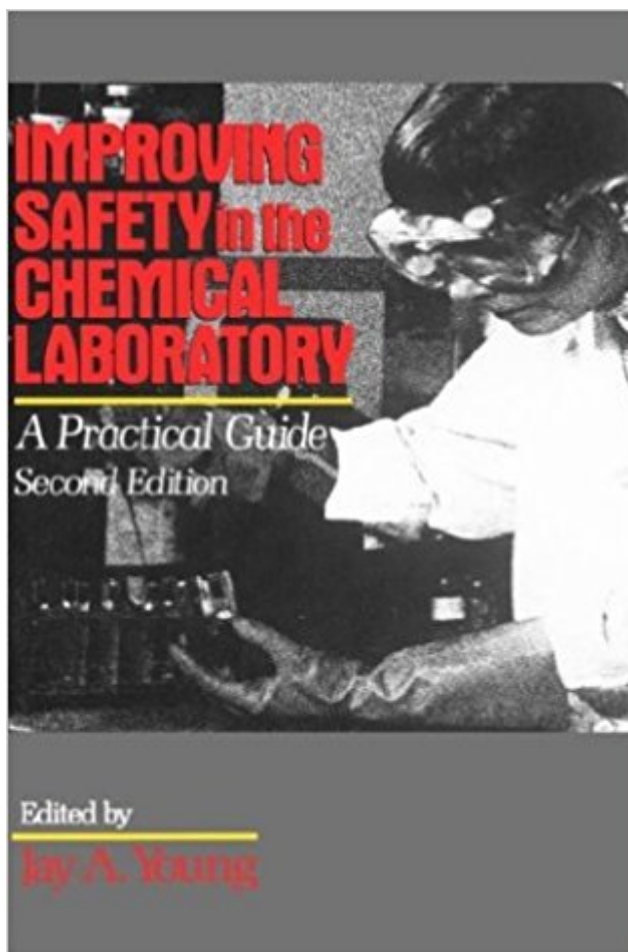




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# Improving Safety In The Chemical Laboratory: A Practical Guide



## Synopsis

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.

## Book Information

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## Customer Reviews

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.

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

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This "practical guide" contains a wealth of information. Chapters on Materials Safety Data Sheets and labeling, training programs and drills, flammability and combustibility, storage of laboratory chemicals, federal regulations, safe disposal of chemical waste, laboratory design, and fume hoods were the most useful, in my opinion. The chapter that listed causes of accidents was not very helpful, except as a checklist of things to avoid, and the penultimate chapter on using audiovisual materials in safety training was short and outdated. The fume hood chapter, which was actually a good read, was obviously written by someone who knows a lot about chemical fume hoods and should probably be required reading for anyone involved in building or renovating a laboratory.

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