

Journal of Chemical Research, Issue 4, 1987

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Hazards in the Chemical Laboratory

4th EDITION

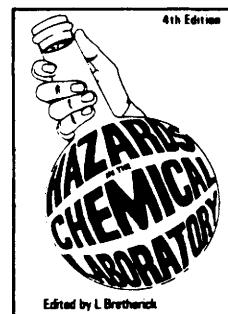
Edited by L. Bretherick, *Safety Consultant*

Hazards in the Chemical Laboratory has become established as an essential handbook of safety practices, measures and toxic effects for laboratories handling dangerous chemicals. Since the last edition was published in 1981 there have been many changes in legislation, regulations, precautionary safety methods and toxicity assessments which warrant publication of this new 4th edition. In addition coverage has been expanded to include material relating to legislation and safety practices in the USA. The principle areas of change are as follows:

The chapter on the 'Health and Safety at Work Act 1974' has been modified to reflect the steady developments in the effects of this key legislation upon laboratory life. Attention is drawn to the likely effects of the forthcoming regulations on the Control of Substances Hazardous to health and to the need to make effective provision for laboratory waste disposal. Additional material has been included which describes instrumental and computational methods of assessing and predicting chemical reaction hazards. The chapters on health Care and First Aid and on Chemical Hazards and Toxicology have been considerably revised and rearranged to take into account the many changes in detail which have occurred in the last five years.

The 'yellow pages' which include data on hazardous chemicals have been updated as a result of several factors: New legislation stemming from the EEC Directive on Classification and Labelling which now permits the officially accepted risk classification phrases to be included in most of the 500 monographs which form the heart of the chapter; Significant change in the occupational exposure limit values in Guidance Note EH 40/85 away from TLV to the dual concept of Control Limits and Recommended Limits; a number of new reactive hazards have been added; CAS Registry Numbers have been included for each chemical compound and where possible reference has been made to the appropriate Data Sheet published in the RSC's Laboratory Hazards Bulletin.

The chapter on 'Precautions against Radiations' has been completely reviewed to match the requirements of Ionising Radiations Regulations 1985 and its Approved Code of Practice 1985. Finally a new chapter has been added which gives an American view of legislation and practice, with some distinction between the US and UK views.



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