F.-X. Reichl, M. Schwenk (Eds.)

Regulatory Toxicology

► Provides a unique reference work on the process of toxicological risk assessment, from cell to population
► Describes experimental methods and scientific approaches in an accessible way for all those involved in toxicological data generation and decision-making
► Covers modern test systems, basic risk concepts and the concepts employed by regulatory agencies, industry and academia
► Presents expert insights on data collection, extrapolation and estimation in toxicology

This book will be written by experts for professionals, scientists and all those involved in toxicological data generation and decision-making. It is the updated and expanded version of a monograph published in German in 2004. Chemical safety is regulated on various levels including production, storage, transport, handling, disposal or labelling. This book deals comprehensively with the safety-ensuring methods and concepts employed by regulatory agencies, industry and academics. Toxicologists use experimental and scientific approaches for data collection, e.g. about chemical hazards, physicochemical features or toxicokinetics. The respective experimental methods are described in the book. Toxicologists also deal with much insecurity in the exposure and effect scenarios during risk assessment. To overcome these, they have different extrapolation methods and estimation procedures at their disposal. The book describes these methods in an accessible manner. Differing concepts from one regulation area to another are also covered. Reasons and consequences become evident when reading the book. Altogether, the book Regulatory Toxicology will serve as an excellent reference.