

1. Record Nr.	UNINA9910971851003321
Titolo	Standing operating procedures for developing acute exposure guideline levels for hazardous chemicals / / Subcommittee on Acute Exposure Guideline Levels ...[et al.]
Pubbl/distr/stampa	Washington ; ; [England], : National Academy Press, c2001
ISBN	9786610184644 9780309170864 0309170869 9781280184642 1280184647 9780309570114 0309570115
Edizione	[1st ed.]
Descrizione fisica	1 online resource (224 p.)
Disciplina	363.1763
Soggetti	Hazardous substances - Risk assessment - United States Chemicals - Physiological effect
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Standing Operating Procedures for Developing Acute Exposure Guideline Levels for Hazardous Chemicals""; ""Copyright""; ""Preface""; ""Contents""; ""Introduction""; ""REVIEW OF THE NAC DOCUMENT""; ""REFERENCES""; ""Roster National Advisory Committee for Acute Exposure Guideline Levels (NAC/AEGL Committee) for Hazardous Substances""; ""COMMITTEE MEMBERS""; ""Past Committee Members""; ""Participants from Cooperative Partner Countries""; ""Other Participants""; ""Oak Ridge National Laboratory Staff""; ""AEGL Program Senior Staff""; ""Appendix""; ""Preface"" ""1. Overview of AEGL Program and NAC/AEGL Committee""""HISTORY""; ""PURPOSE AND OBJECTIVES OF THE AEGL PROGRAM AND THE NAC/AEGL COMMITTEE""; ""COMMITTEE MEMBERSHIP AND ORGANIZATIONAL STRUCTURE""; ""SELECTION OF CHEMICALS FOR AEGL DEVELOPMENT""; ""SCIENTIFIC CREDIBILITY OF AEGL VALUES""; ""THE AEGL DEVELOPMENT AND PEER-REVIEW PROCESS""; ""Stage 1: Draft

AEGLs"; ""Stage 2: Proposed AEGLs""; ""Stage 3: Interim AEGLs"";
""Stage 4: Final AEGLs""; ""OPERATION OF THE NAC/AEGL COMMITTEE"";
""VALUE OF A COLLABORATIVE EFFORT IN THE AEGL PROGRAM"";
""APPLICATIONS OF THE AEGL VALUES""
""2. Derivation of AEGL Values""""2.1 CHARACTERIZATION OF AEGLS"";
""2.2 EMPIRICAL TOXICOLOGIC ENDPOINTS AND METHODS FOR
DETERMINING EXPOSURE CONCENTRATIONS USED TO DERIVE AEGLS 1,
2, AND 3""; ""2.2.1 Selection of the Highest Exposure Level at Which the
Effects That Define an AEGL Are Not Observed""; ""2.2.2 Selection of
Health-Effect Endpoints for AEGL-1, AEGL-2, and AEGL-3""; ""2.2.2.1
AEGL-1 Endpoints""; ""2.2.2.1.1 No Value Establisheda€?AEGL-1 Is
Close to or Exceeds AEGL-2""; ""2.2.2.1.2 No Value Establisheda€?
Insufficient Data""
""2.2.2.1.3 Highest Experimental Exposure Without an AEGL-1 Effect""""
2.2.2.1.4 Effect Level for a Response""; ""2.2.2.2 AEGL-2 Endpoints"";
""2.2.2.2.1 Highest Experimental Exposure Without an AEGL-2 Effect"";
""2.2.2.2.2 Effect Level for a Toxic Response That Was Not
Incapacitating or Not Irreversible""; ""2.2.2.2.3 A Fraction of the AEGL-3
Value""; ""2.2.2.3 AEGL-3 Endpoints""; ""2.2.2.3.1 Highest Exposure
Level That Does Not Cause Lethalitya€?Experimentally Observed
Threshold (AEGL-3 NOAEL)""
""2.2.2.3.2 Highest Exposure Level That Does Not Cause Lethalitya€?
Estimated Lethality Thresholda€?One-Third of the LC50""""2.2.2.3.3
Highest Exposure Level That Does Not Cause Lethalitya€?Benchmark
Exposure Calculation of the 5% and 1% Response""; ""2.2.2.3.4 Effect
Level for a Response""; ""2.3 GUIDELINES AND CRITERIA FOR THE
SEARCH STRATEGY, EVALUATION, SELECTION, AND DOCUMENTATION
OF KEY DATA AND SUPPORTINGa€?""; ""2.3.1 Search Strategy""; ""2.3.2
Evaluation, Selection, and Documentation of Key and Supporting Data"";
""2.3.3 Elements for Discussion on Data Adequacy and Research
Needs""
""2.4 DOSIMETRY CORRECTIONS FROM ANIMAL TO HUMAN
EXPOSURES""

Sommario/riassunto

Standing Operating Procedures for Developing Acute Exposure Guideline Levels for Hazardous Chemicals contains a detailed and comprehensive methodology for developing acute exposure guideline levels (AEGLs) for toxic substances from inhalation exposures. The book provides guidance on what documents and databases to use, toxicity endpoints that need to be evaluated, dosimetry corrections from animal to human exposures, selection of appropriate uncertainty factors to address the variability between animals and humans and within the human population, selection of modifying factors to address data deficiencies, time scaling, and quantitative cancer risk assessment. It also contains an example of a summary of a technical support document and an example of AEGL derivation. This book will be useful to persons in the derivation of levels from other exposure routes "both oral and dermal "as well as risk assessors in the government, academe, and private industry.
