

## FAST FACTS



# Emergency Response Planning Guidelines (ERPG) Save Lives

ERPG values are developed for chemicals with a high potential for uncontrolled releases or pose hazards due to their volatility or toxicity. The values assist occupational and environmental health and safety professionals in the development of emergency response strategies for protecting workers and the public and emergency response personnel in planning for catastrophic chemical releases to a community.



## ERPG Stakeholders

- Community emergency planners
- Emergency responders
- Air dispersion modelers
- Industrial process safety engineers
- Community Action Emergency Response (CAER) participants
- Local Emergency Planning Committees (LEPCs)
- State Emergency Response Commissions (SERCs)
- Toxicologists
- Transportation safety engineers
- Fire protection specialists
- Government agencies
- Risk assessors and risk managers
- Resource Conservation and Recovery Act (RCRA) managers
- Product Stewards
- Industrial hygienists



## Fields of Focus

- Toxicology
- Emergency Medicine
- Industrial Hygiene

## ERPGs Details

- 10 to 15 updated values annually
- 1 to 3 new values annually
- 150 chemicals with assigned ERPGs
- 14.5 million copies distributed to date



## Reasons Companies Use ERPGs

- Process risk or safety management
- Community right-to-know and awareness campaigns

## A recent survey of chemical manufacturers who produce products for which ERPG values exist found

- 62% say their company produces at least 1 of the 150 chemicals listed in the Emergency Response Planning Guide
- 72% say their company uses ERPGs in emergency response to spills or releases of chemicals the company produces
- 96% say AIHA's ERPGs are valuable to their company
- 100% say it is important to update or increase the development of new ERPGs\*
- 59% say AIHA should be leading the efforts to update or increase the development of new ERPGs.

\*Findings supported in a DC Policy Influencer survey conducted in December 2021.

Contributions supporting the ERPGs are tax-deductible.

# Emergency Response Planning Guide Erpg

**Ali Mosleh, Robert A. Bari**



## **Emergency Response Planning Guide Erpg:**

AIHA 2008 *Emergency Response Planning Guidelines (ERPG) and Workplace Environmental Exposure Levels (WEEL) Handbook*, **Guidelines for Engineering Design for Process Safety** CCPS (Center for Chemical Process Safety), 2012-11-07 This updated version of one of the most popular and widely used CCPS books provides plant design engineers facility operators and safety professionals with key information on selected topics of interest The book focuses on process safety issues in the design of chemical petrochemical and hydrocarbon processing facilities It discusses how to select designs that can prevent or mitigate the release of flammable or toxic materials which could lead to a fire explosion or environmental damage Key areas to be enhanced in the new edition include inherently safer design specifically concepts for design of inherently safer unit operations and Safety Instrumented Systems and Layer of Protection Analysis This book also provides an extensive bibliography to related publications and topic specific information as well as key information on failure modes and potential design solutions

*Dow's Chemical Exposure Index Guide* American Institute of Chemical Engineers (AIChE), 2010-09-07 Dow Chemical developed the Chemical Exposure Index to help its engineers design and operate safer facilities This seminal guide to rating the relative acute health hazard potential of a chemical release to workers and the neighboring community is available to the chemical process community The index uses a methodology for estimating airborne quantity released which allows for more sophisticated process analyses Special Details Softcover The Dow Chemical Exposure Index and the Dow Fire and Explosion Index Hazard Classification Guide and the are designed to complement each other helping engineers evaluate the total hazard potential of new installations These guides are invaluable resources for process design engineers plant managers and others involved in the safe design and operation of chemical plants Don't take your plant's safety analysis only halfway Purchase both books and take 10 off the combined list price

*Fundamentals of Process Safety Engineering* Samarendra Kumar Biswas, Umesh Mathur, Swapan Kumar Hazra, 2021-08-16 This textbook covers the essential aspects of process safety engineering in a practical and comprehensive manner It provides readers with an understanding of process safety hazards in the refining and petrochemical industries and how to manage them in a reliable and professional manner It covers the most important concepts static electricity intensity of thermal radiation thermodynamics of fluid phase equilibria boiling liquid expanding vapor explosion BLEVE emission source models hazard identification methods risk control and methods for achieving manufacturing excellence while also focusing on safety Extensive case studies are included Aimed at senior undergraduate and graduate chemical engineering students and practicing engineers this book covers process safety principles and engineering practice authoritatively with comprehensive examples Fundamentals methods and procedures for the industrial practice of process safety engineering The thermodynamic fundamentals and computational methods for release rates from ruptures in pipelines vessels and relief valves Fundamentals of static electricity hazards and their mitigation Quantitative assessment of fires and explosions

Principles of dispersion calculations for toxic or flammable gases and vapors Methods of qualitative and quantitative risk assessment and control      **Standing Operating Procedures for Developing Acute Exposure Guideline Levels for Hazardous Chemicals** National Research Council, Commission on Life Sciences, Board on Environmental Studies and Toxicology, Committee on Toxicology, Subcommittee on Acute Exposure Guideline Levels, 2001-06-25 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      **Guidelines for Process Hazards Analysis (PHA, HAZOP), Hazards Identification, and Risk Analysis** Nigel Hyatt, 2018-10-03 This unique manual is a comprehensive easy to read overview of hazards analysis as it applies to the process and allied industries The book begins by building a background in the technical definition of risk past industrial incidents and their impacts ensuing legislation and the language and terms of the risk field It addresses the different types of structured analytical techniques for conducting Process Hazards Analyses PHA provides a What If checklist and shows how to organize and set up PHA sessions Other topics include layout and siting considerations Failure Modes and Effect Analysis FMEA human factors loss of containment and PHA team leadership issues      *Programmatic EIS for Accomplishing Expanded Civilian Nuclear Energy Research and Development and Isotope Production Missions in the United States, Including the Role of the Fast Flux Test Facility*, 2000      **Safety and Health in Confined Spaces** Neil McManus, 2018-12-18 Safety and Health in Confined Spaces goes beyond all other resources currently available International in scope the 15 chapters and 10 appendices cover every facet of this important subject A significant addition to the literature this book provides a confined space focus to other health and safety concepts Confined spaces differ from other workspaces because their boundary surfaces amplify the consequences of hazardous conditions The relationship between the individual the boundary surface and the hazardous condition is the critical factor in the onset outcome and severity of accidents in these workspaces The author uses information about causative and other factors from analysis of fatal accidents to develop a hazard assessment and hazard management system He provides a detailed disciplined protocol covering 36 hazardous conditions that addresses all segments of work the undisturbed space entry preparation work activity and emergency preparedness and response and illustrates how to use it Safety and Health in Confined Spaces gives you the tools you need for preventing and responding to

accidents      **A Strategy for Assessing and Managing Occupational Exposures** William H. Bullock, Joselito Ignacio (S.), Joselito S. Ignacio, 2006      Principles and Methods of Toxicology, Fifth Edition A. Wallace Hayes, 2007-09-25 Founded on the paradox that all things are poisons and the difference between poison and remedy is quantity the determination of safe dosage forms the base and focus of modern toxicology In order to make a sound determination there must be a working knowledge of the biologic mechanisms involved and of the methods employed to define these mechanisms While the vastness of the field and the rapid accumulation of data may preclude the possibility of absorbing and retaining more than a fraction of the available information a solid understanding of the underlying principles is essential Extensively revised and updated with four new chapters and an expanded glossary this fifth edition of the classic text Principles and Methods of Toxicology provides comprehensive coverage in a manageable and accessible format New topics include toxicoponomics plant and animal poisons information resources and non animal testing alternatives Emphasizing the cornerstones of toxicology people differ dose matters and things change the book begins with a review of the history of toxicology and followed by an explanation of basic toxicological principles agents that cause toxicity target organ toxicity and toxicological testing methods including many of the test protocols required to meet regulatory needs worldwide The book examines each method or procedure from the standpoint of technique and interpretation of data and discusses problems and pitfalls that may be associated with each The addition of several new authors allow for a broader and more diverse treatment of the ever changing and expanding field of toxicology Maintaining the high quality information and organizational framework that made the previous editions so successful Principles and Methods of Toxicology Fifth Edition continues to be a valuable resource for the advanced practitioner as well as the new disciple of toxicology      Sittig's Handbook of Pesticides and Agricultural Chemicals Richard P. Pohanish, 2014-09-06 This reference handbook provides fully updated chemical regulatory health and safety information on nearly 800 pesticides and other agricultural chemicals The clear consistent and comprehensive presentation of information makes Sittig s an essential reference for a wide audience including first responders environmental and industrial health safety professionals the food industry the agricultural sector and toxicologists Detailed profiles are provided for each substance listed including usage crop specific residue limits hazard ratings for long term human toxicity and endocrine disruptor and reproductive toxicity information Every chemical profile contains references and web links to source information from the EPA OSHA the World Health Organization WHO and other important advisory and lawmaking bodies This work is focused on regulated chemicals The substances covered include pesticides insecticides herbicides fungicides rodenticides and related agricultural chemicals used on foods grown and produced for both human and animal consumption These products are organized with common names chemical synonyms trade names chemical formulae US EPA pesticide codes EU regulations including Hazard Symbol and Risk Phrases EINECS RTECS CAS and other unique identifiers so that all who may have contact with or interest in them can find needed information quickly A comprehensive

reference for the agricultural sector food industry agrochemical manufacturing and distribution sector and first responders Brings together a wealth of hazard and response regulatory and toxicological information in one convenient go to handbook Covers US EU and worldwide regulatory requirements **Acute Exposure Guideline Levels for Selected Airborne Chemicals** National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Acute Exposure Guideline Levels, 2015-04-09 Extremely hazardous substances can be released accidentally as a result of chemical spills industrial explosions fires or accidents involving railroad cars and trucks transporting EHSs Workers and residents in communities surrounding industrial facilities where these substances are manufactured used or stored and in communities along the nation s railways and highways are potentially at risk of being exposed to airborne EHSs during accidental releases or intentional releases by terrorists Pursuant to the Superfund Amendments and Reauthorization Act of 1986 the U S Environmental Protection Agency EPA has identified approximately 400 EHSs on the basis of acute lethality data in rodents Acute Exposure Guideline Levels for Selected Airborne Chemicals Volume 19 identifies reviews and interprets relevant toxicologic and other scientific data for selected AEGL documents for cyanide salts diketene methacrylaldehyde pentaborane tellurium hexafluoride and tetrafluoroethylene in order to develop acute exposure guideline levels AEGLs for these high priority acutely toxic chemicals AEGLs represent threshold exposure limits exposure levels below which adverse health effects are not likely to occur for the general public and are applicable to emergency exposures ranging from 10 minutes min to 8 h Three levels AEGL 1 AEGL 2 and AEGL 3 are developed for each of five exposure periods 10 min 30 min 1 h 4 h and 8 h and are distinguished by varying degrees of severity of toxic effects This report will inform planning response and prevention in the community the workplace transportation the military and the remediation of Superfund sites **Hanford Site Tank Waste Remediation Systems (TWRS), Management and Disposal of Radioactive, Hazardous, and Mixed Wastes, City of Richland, Grant County**, 1996 *Disasters and Public Health* Bruce W. Clements, 2009-03-21 From the San Diego wildfires to multi drug resistant strains of bacteria communities are facing an ever growing list of potential disasters Some events like pandemic flu or anthrax attacks are public health emergencies first and foremost Hurricane Katrina taught us however that lack of planning for the frail elderly and impoverished population can turn a natural disaster into a healthcare nightmare and lead to needless death and suffering Emergency managers and public health professionals must integrate their prevention and response efforts to serve their communities most effectively The structure of each chapter offers an innovative approach to organizing key information 1 Case Study or Historical Example 2 Disaster specific Terms Defined 3 Disaster Description 4 Health Threat Morbidity and Mortality 5 Prevention 6 Immediate Actions 7 Recovery or Managing the Aftermath 8 Summary Disasters and Public Health is a crucial tool in planning for and responding to the health impact of any crisis situation Bruce Clements served over 20 years in the U S Air Force and Air National Guard as a Public Health Officer and a Nuclear Biological and

Chemical Warfare Defense Instructor a Hazardous Materials Specialist with an Urban Search and Rescue Team and as a Safety Officer with a Disaster Medical Assistance Team He also served as the Public Health Preparedness Director of Missouri in 2006 when the state experienced a record number of disaster declarations Throughout his years of experience he frequently needed to track down a variety of references to quickly understand what was needed for an effective public health response in various situations He has researched and compiled this information on the health impact of a wide range of disasters into one quick reference Emergency managers can also no longer afford to be surprised by the next crisis that erupts This book guides planners in both disciplines in preventing tragedies by most effectively preparing and responding when disaster strikes Prevent or respond to disasters from terrorism to pandemic flu Examine the critical intersection of emergency management and public health Benefit from the author's years of experience in emergency response

**Los Alamos National Laboratory Continued Operation Site-Wide ,1999 Probabilistic Safety Assessment and Management** Ali Mosleh, Robert A. Bari, 1998-08-26 These volumes contain the papers presented at the 4th International Conference on Probabilistic Safety Assessment and Management PSAM 4 held in New York City in September 98 The conference provided a forum for the presentation of innovative methods and applications of risk based approaches to improve the design and operation of technological systems and processes from the economic and safety points of view Papers reflect progress made on methods and applications in such areas as modeling and analysis of complex systems human and organizational performance assessment software reliability data collection and analysis expert judgement modeling and use identification and assessment of various types of uncertainty risk informed regulatory and operational decision making and public perception of risk A diverse range of disciplines are represented including aerospace nuclear fossil fuels chemical systems marine technology transportation information technology medical systems environment and defense

Plant Design and Operations Ian Sutton, 2014-10-06 Plant Design and Operations provides practical guidance on the design operation and maintenance of process facilities The book is based on years of hands on experience gathered during the design and operation of a wide range of facilities in many different types of industry including chemicals refining offshore oil and gas and pipelines The book helps managers engineers operators and maintenance specialists with advice and guidance that can be used right away in working situations Each chapter provides information and guidance that can be used immediately For example the chapter on Energy Control Procedures describes seven levels of positive isolation ranging from a closed block valve all the way to double block and bleed with line break The Safety in Design chapter describes topics such as area classification fire protection stairways and platforms fixed ladders emergency showers lighting and alarms Other areas covered in detail by the book include security equipment and transportation A logical practical guide to maintenance task organization is provided from conducting a Job Hazards Analysis to the issue of a work permit and to the shutdown and isolation of equipment Common hazards are covered in detail including flow problems high pressure corrosion power failure

and many more Provides information to managers engineers operators and maintenance personnel which is immediately applicable to their operations Supported by useful real world examples and experience from a wide range of facilities and industries Includes guidance on occupational health and safety industrial hygiene and personal protective equipment

**Sittig's Handbook of Toxic and Hazardous Chemicals and Carcinogens** Richard P. Pohanish, 2012 For more than a quarter century Sittig's Handbook of Toxic and Hazardous Chemicals and Carcinogens has proven to be among the most reliable easy to use and essential reference works on hazardous materials Sittig's 5th Edition remains the lone comprehensive work providing a vast array of critical information on the 2 100 most heavily used transported and regulated chemical substances of both occupational and environmental concern Information is the most vital resource anyone can have when dealing with potential hazardous substance accidents or acts of terror Sittig's provides extensive data for each of the 2 100 chemicals in a uniform format enabling fast and accurate decisions in any situation The chemicals are presented alphabetically and classified as a carcinogen hazardous substance hazardous waste or toxic pollutant This new edition contains extensively expanded information in all 28 fields for each chemical see table of contents and has been updated to keep pace with world events Chemicals classified as WMD have been included in the new edition as has more information frequently queried by first responders and frontline industrial safety personnel Sittig's Handbook is a globally recognized reference source providing full listings of the 2 000 most common hazardous chemicals making it the essential handbook for first line response to chemical spills and day to day chemical plant reference Entries have a full range of synonyms for each chemical including trade names to avoid confusion and enable quick and accurate location of the right information Authoritative and frequently updated Sittig provides a fully accurate source of information that engineers and emergency response services look to as a highly dependable reference both for emergencies and day to day engineering decisions

*Construction and Operation of a Mixed Oxide Fuel Fabrication Facility at the Savannah River Site*, 2005

**Environmental Impact Statement of the Construction and Operation of a Proposed Mixed Oxide Fuel Fabrication Facility at the Savannah River Site, South Carolina**, 2005-02-24 Evaluates the potential environmental impacts of a proposed mixed oxide fuel MOX fabrication facility that would convert depleted uranium and weapons grade plutonium into MOX fuel



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