

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

M Mark



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),2012-04-10

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 Handbook of Highly Toxic Materials Handling and Management Stanley S. Grossel,Daniel A. Crawl,1994-12-13 This handbook provides practical technological information on the toxicological aspects of dangerously hazardous chemicals the design and maintenance of facilities for processing them as well as preventive and mitigative procedures for controlling their accidental release Key areas of industrial toxicology including major routes of occupational exposure and general toxic properties of selected chemicals are discussed **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 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

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 **Water Chlorination/chloramination Practices and Principles** AWWA Staff,2006 **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

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