

5<sup>th</sup> Edition

NATIONAL INSTITUTES OF HEALTH | OFFICE OF RESEARCH SERVICES | DIVISION OF OCCUPATIONAL HEALTH AND SAFETY

# Chemical Safety Guide

A companion to the *NIH Chemical Hygiene Plan and Hazard Communication Program*  
Primarily for Laboratory Settings



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## Hazard Identification

### Globally Harmonized System

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) provides an international standardized approach to the classification and labeling of chemicals. The Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (HCS) aligns with the GHS to ensure consistency of information. The HCS requirements include:

**Hazard Classification:** Provides specific criteria for classification of health, physical and environmental hazards, as well as classification of mixtures.

**Labels:** Chemical manufacturers and importers

### GHS Pictograms:

HEALTH HAZARD	FLAME	EXCLAMATION MARK
 <ul style="list-style-type: none"><li>• Carcinogen</li><li>• Mutagenicity</li><li>• Reproductive Toxicity</li><li>• Respiratory Sensitizer</li><li>• Target Organ Toxicity</li><li>• Aspiration Toxicity</li></ul>	 <ul style="list-style-type: none"><li>• Flammables</li><li>• Pyrophorics</li><li>• Self Heating</li><li>• Emits Flammable Gas</li><li>• Self Reactives</li><li>• Organic Peroxides</li></ul>	 <ul style="list-style-type: none"><li>• Irritant (skin and eyes)</li><li>• Skin Sensitizer</li><li>• Acute Toxicity (harmful)</li><li>• Narcotic Effects</li><li>• Respiratory Tract Irritant</li><li>• Hazardous to Ozone Layer (Non-Mandatory)</li></ul>
GAS CYLINDER	CORROSION	EXPLODING BOMB
		

# Chemical Data Safety Guide

**Richard P. Pohanish, Stanley A. Greene**



## Chemical Data Safety Guide:

**Hayes' Principles and Methods of Toxicology** A. Wallace Hayes, Tetyana Kobets, 2023-07-03 Hayes Principles and Methods of Toxicology has long been established as a reliable and informative reference for the concepts methodologies and assessments integral to toxicology The new edition contains updated and new chapters with the addition of new authors while maintaining the same high standards that have made this book a benchmark resource in the field Key Features The comprehensive yet concise coverage of various aspects of fundamental and applied toxicology makes this book a valuable resource for educators students and professionals Questions provided at the end of each chapter allow readers to test their knowledge and understanding of the material covered All chapters have been updated and over 60 new authors have been added to reflect the dynamic nature of toxicological sciences New topics in this edition include Safety Assessment of Cosmetics and Personal Care Products The Importance of the Dose Rate Response Novel Approaches and Alternative Models Epigenetic Toxicology and an Expanded Glossary The volume is divided into 4 major sections addressing fundamental principles of toxicology Section I Principles of Toxicology major classes of established chemical hazards Section II Agents current methods used for the assessment of various endpoints indicative of chemical toxicity Section III Methods as well as toxicology of specific target systems and organs Section IV Organ and System Specific Toxicology This volume will be a valuable tool for the audience that wishes to broaden their understanding of hazards and mechanisms of toxicity and to stay on top of the emerging methods and concepts of the rapidly advancing field of toxicology and risk assessment *Wiley Guide to Chemical Incompatibilities* Richard P. Pohanish, Stanley A. Greene, 2005-02-25 The Second Edition of the Wiley Guide to Chemical Incompatibilities provides chemists technicians and engineers with a thorough lightning quick resource to use during experimental preparation and in the event of an emergency Includes Hard to find data on over 11 000 chemical compounds 2 000 more chemical listings than the First Edition Alphabetical organization providing concise incompatibility profiles for thousands of commonly used commercial chemicals CAS Numbers to eliminate confusion among similar synonym names A glossary of general chemical terms This expanded Second Edition set out in a convenient easy to use format is an essential guide for all safety first response and plant management professionals working with chemical materials *A Guide to Safe Material and Chemical Handling* Nicholas P. Cheremisinoff, Anton Davletshin, 2010-04-27 There have been many volumes written that claim to be the most comprehensive compendium or handbook on chemical data These bulky volumes are often too big and extraneous to be useful to the practicing engineer This new volume aims to be the most useful go to volume for the working engineer scientist or chemist who needs quick answers to daily questions about materials or chemicals and doesn't want to go on long searches through voluminous tomes or lengthy internet searches Covering only the most commonly used chemicals in the most important processes in industry A Guide to Safe Material and Chemical Handling includes industrial chemicals such as gases fuels and water which are not incorporated in most comprehensive books on

materials and chemical properties Safety plans and procedures that can be implemented by any engineer or plant manager by following the easy step by step instructions in the book are also provided      Manuals Combined: U.S. Coast Guard Marine Safety Manual Volumes I, II and III , Over 2 300 total pages Titles included Marine Safety Manual Volume I Administration And Management Marine Safety Manual Volume II Materiel Inspection Marine Safety Manual Volume III Marine Industry Personnel      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      Proceedings of the Marine Safety Council United States. Marine Safety Council,1987      **Chemical Tanker Cargo and Ballast Handling Simulator** ,2007      **Radiation Safety Guide** J. R. Novak,1956 This Guide includes suggested precautions to provide adequate protection as well as some general information concerning possible radiation hazards and the effects of radiation on the body It also contains procedural information which will help you cope with radiation safety problems as they occur at Argonne National Laboratory      **Pocket Guide to Chemical and Environmental Safety in Schools and Colleges: Basic principles** ,1990      **Handbook of Chemicals and Safety** T.S.S. Dikshith,2016-04-19 A comprehensive resource this volume offers a tool for the management of a range of chemical substances commonly used handled stored transported and disposed of as wastes The substances include industrial solvents pesticides metals air pollutants toxic gases drugs and other items Information supplied includes the chemical abstract system CAS number IUPAC name molecular formula synonyms and trade names use and exposure toxicity and health effects and carcinogen factors Also included is information on exposure limits methods of proper storage and waste disposal      **School Chemistry Laboratory Safety Guide** Department of Health and Human Services,Centers for Disease Control and Prevention,National Institute Health and Safety,2014-02-16 In 1984 the Council of State Science Supervisors in association with the U S Consumer Product Safety Commission and the National Institute for Occupational Safety and Health published the safety guide School Science Laboratories A Guide to Some Hazardous Substances to help science teachers identify hazardous substances that may be used in school laboratories and provide an inventory of these substances Because school science curricula have changed since then the safety guide has been updated and revised to reflect those changes This guide on safety in the chemistry laboratory was also written to provide high school chemistry teachers with an easy to read

reference to create a safe learning environment in the laboratory for their students The document attempts to provide teachers and ultimately their students with information so that they can take the appropriate precautionary actions in order to prevent or minimize hazards harmful exposures and injuries in the laboratory The guide presents information about ordering using storing and maintaining chemicals in the high school laboratory The guide also provides information about chemical waste safety and emergency equipment assessing chemical hazards common safety symbols and signs and fundamental resources relating to chemical safety such as Material Safety Data Sheets and Chemical Hygiene Plans to help create a safe environment for learning In addition checklists are provided for both teachers and students that highlight important information for working in the laboratory and identify hazards and safe work procedures This guide is not intended to address all safety issues but rather to provide basic information about important components of safety in the chemistry laboratory and to serve as a resource to locate further information Pocket Guide to Chemical and Environmental Safety in Schools and Colleges: Safe chemical storage ,1990

**Hazardous Substances Resource Guide** Richard P. Pohanish, Stanley A. Greene, 1997 This US resource guide provides concerned citizens with a on approximately 1500 chemical hazardous materials found in the home workplace and community including what they are there effects on human health the laws controlling their use proper handling and resources for more in depth study political action and networking

**Occupational safety and health guidelines for chemical hazards. suppl. 3, 1992** ,1988 *Manual for Spills of Hazardous Materials* Canada. Environmental Protection Service. Technical Services Branch, 1984 *Employment Safety and Health Guide* ,2004 Includes original text of the Occupational safety and health act of 1970 *Chemical Safety Data Sheets* David Walsh, Royal Society of Chemistry (Great Britain), 1989 Provides information on over 100 representative solvents with the full range of chemical physical and biological hazards for each as well as safe handling emergency precautions safe disposal procedures and British legislation regarding exposure transportation and labelling Volume 2 Metals and their compounds to be published in 1989 Annotation copyrighted by Book News Inc Portland OR **PERRY'S CHEMICAL ENGINEER'S HANDBOOK 8/E SECTION 23 PROCESS SAFETY (POD)** Don W. Green, 2007-10-26 Now in its eighth edition Perry s Chemical Engineers Handbook offers unrivaled up to date coverage of all aspects of chemical engineering For the first time individual sections are available for purchase Now you can receive only the content you need for a fraction of the price of the entire volume Streamline your research pinpoint specialized information and save money by ordering single sections of this definitive chemical engineering reference today First published in 1934 Perry s Chemical Engineers Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data Now updated to reflect the latest technology and processes of the new millennium the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications Filled with over 700 detailed illustrations the Eighth Edition of Perry

s Chemical Engineers Handbook features Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories

**Handbook of Chemical Health and Safety** Robert J. Alaimo, 2001 Provides information on proper chemical equipment handling including purchasing storage use and disposal

**National Safety Congress Transactions** National Safety Congress (U.S.), 1963

## **Chemical Data Safety Guide** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Chemical Data Safety Guide**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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