Niosh Pocket Guide Toluene

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 17 identifies, reviews, and interprets relevant toxicologic and other scientific data for selected AEGL documents for acrylonitrile, carbon tetrachloride, cyanogen, epichlorohydrin, ethylene chlorohydrin, toluene, trimethylacetyl chloride, hydrogen bromide, and boron tribromide 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.

The Leading Integrated Chemical Process Design Guide: Now with New Problems, New Projects, and More More than ever, effective design is the focal point of sound chemical engineering. Analysis, Synthesis, and Design of Chemical Processes, Third Edition, presents design as a creative process that integrates both the big picture and the small details—and knows which to stress when, and why. Realistic from start to finish, this book moves readers beyond classroom exercises into open-ended, real-world process problem solving. The authors introduce integrated techniques for every facet of the discipline, from finance to operations, new plant design to existing process optimization. This fully updated Third Edition presents entirely new problems at the end of every chapter. It also

adds extensive coverage of batch process design, including realistic examples of equipment sizing for batch sequencing; batch scheduling for multi-product plants; improving production via intermediate storage and parallel equipment; and new optimization techniques specifically for batch processes. Coverage includes Conceptualizing and analyzing chemical processes: flow diagrams, tracing, process conditions, and more Chemical process economics: analyzing capital and manufacturing costs, and predicting or assessing profitability Synthesizing and optimizing chemical processing: experience-based principles, BFD/PFD, simulations, and more Analyzing process performance via I/O models, performance curves, and other tools Process troubleshooting and "debottlenecking" Chemical engineering design and society: ethics, professionalism, health, safety, and new "green engineering"

techniques Participating successfully in chemical engineering design teams Analysis, Synthesis, and Design of Chemical Processes, Third Edition, draws on nearly 35 years of innovative chemical engineering instruction at West Virginia University. It includes suggested curricula for both single-semester and year-long design courses; case studies and design projects with practical applications; and appendixes with current equipment cost data and preliminary design information for eleven chemical processes—including seven brand new to this edition.

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 routesâ□"both oral and dermalâ□"as well as risk assessors in the government, academe, and private industry.

The Toxic Exposure & Medical Monitoring Index

Sittig's Handbook of Toxic and Hazardous Chemicals and Carcinogens

Occupational Health and Safety for the 21st Century

Regulated Chemicals Directory 1994

Acute Exposure Guideline Levels for Selected Airborne Chemicals

Handbook of Polyurethanes serves as the first source of information of useful polymers. This new book thoroughly covers the entire spectrum of polyurethanes - from current technology to buyer's information. Discussions include: block and heteroblock systems rubber plasticity structure-property relations microphase separation catalysis of isocyanate reactions synthesis of polyurethanes for thermoplastics, thermosets, and curable compositions by either heat or U.V. energy biomedical applications of urethane elastomers castables, sealants, and caulking compounds flexible and semi-flexible foams health and safety This handbook

compiles data from many sources, exhaustively illustrating the complex principles involved in polyurethane chemistry and technology. Handbook of Polyurethanes represents invaluable information for corporations, universities, or independent inventors. Prudent Practices in the Laboratory--the book that has served for decades as the standard for chemical laboratory safety practice--now features updates and new topics. This revised edition has an expanded chapter on chemical management and delves into new areas, such as nanotechnology, laboratory security, and emergency planning. Developed by experts from academia and industry, with specialties in such areas as chemical sciences, pollution prevention, and laboratory safety,

Prudent Practices in the Laboratory provides guidance on planning procedures for the handling, storage, and disposal of chemicals. The book offers prudent practices designed to promote safety and includes practical information on assessing hazards, managing chemicals, disposing of wastes, and more. Prudent Practices in the Laboratory will continue to serve as the leading source of chemical safety guidelines for people working with laboratory chemicals: research chemists, technicians, safety officers, educators, and students.

The last two decades have witnessed a rapid development of microelectromechanical systems (MEMS) involving gas microflows in various technical fields. Gas microflows can, for example, be observed in microheat

exchangers designed for chemical applications or for cooling of electronic components, in fluidic microactuators developed for active flow control purposes, in micronozzles used for the micropropulsion of nano and picosats, in microgas chromatographs, analyzers or separators, in vacuum generators and in Knudsen micropumps, as well as in some organs-on-a-chip, such as artificial lungs. These flows are rarefied due to the small MEMS dimensions, and the rarefaction can be increased by low-pressure conditions. The flows relate to the slip flow, transition or free molecular regimes and can involve monatomic or polyatomic gases and gas mixtures. Hydrodynamics and heat and mass transfer are strongly impacted by rarefaction effects, and

temperature-driven microflows offer new opportunities for designing original MEMS for gas pumping or separation. Accordingly, this Special Issue seeks to showcase research papers, short communications, and review articles that focus on novel theoretical and numerical models or data, as well as on new experimental results and technics, for improving knowledge on heat and mass transfer in gas microflows. Papers dealing with the development of original gas MEMS are also welcome.

Complete Confined Spaces Handbook

NIOSH Manual of Analytical Methods

Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants

Analysis, Synthesis and Design of Chemical Processes
Niosh Pocket Guide to Chemical Hazards

This comprehensive examination of occupational health and safety explores hazardous agents found in the occupational environment, reviews their potential health effects, and identifies procedures for prevention of occupational illnesses and injuries. In 10 chapters, Occupational Health and Safety for the 21st Century first takes the reader through a detailed history

of occupational health and safety efforts since Ancient Greece. It then examines each of the occupationally associated diseases and their epidemiology, including cancers, respiratory diseases, fertility and pregnancy abnormalities, hearing loss, infectious diseases, injuries and fatalities, and job stress. The final chapters examine prevention programs and research methods for this rapidly evolving field. Designed for

undergraduate students across a broad spectrum of health and safety disciplines the book presents concepts in an accessible and engaging style. Key Features: Engaging, real-world vignettes in each chapter Loaded with charts, tables, and figures illustrating the most current data in the field Offers thorough coverage of occupational health policy, epidemiology, toxicology, chemical hazards, psychosocial aspects of work,

and prevention efforts Student & Instructor Resources: This text comes packaged with Navigate 2 Advantage Access, a comprehensive package of mobile-ready course materials including: Learn: A complete eBook with interactive tools Practice: A virtual Study Center with robust practice activities and flashcards Assess: A homework and testing Assessment center with prepopulated quizzes and examinations Analyze: Dashboards with

learner and educator views that reports actionable data

U.S. Navy personnel who work on submarines are in an enclosed and isolated environment for days or weeks at a time when at sea. Unlike a typical work environment, they are potentially exposed to air contaminants 24 hours a day. To protect workers from potential adverse health effects due to those conditions, the U.S. Navy has established exposure guidance levels

for a number of contaminants. The Navy asked a subcommittee of the National Research Council (NRC) to review, and develop when necessary, exposure guidance levels for specific contaminants. This volume, the third in a series, recommends 1-hour and 24-hour emergency exposure guidance levels (EEGLs) and 90-day continuous exposure guidance levels (CEGLs) for acetaldehyde, hydrogen chloride, hydrogen fluoride, hydrogen sulfide,

and propylene glycol dinitrate.
The Regulated Chemicals Directory"lM is meant to be a convenient source of information for everyone who needs to keep up-to-date regarding the regulations and recommendations that pertain to chemical substances. The RCDTM is designed to be the first reference book to consult when beginning compliance efforts. Every regulatory or advisory list used in the RCDTM is keyed to its source, to help

readers who need more detailed information on regulations, recommendations, or guidelines readily locate source documents. Some organizations now center their compliance efforts on computerized information stored in cross-referenced databases. A unique feature of the RCDTM is the availability of an electronic version suitable for use on IBM-compatible personal computers, download onto mainframes and CD-ROM

players. Both the print and electronic versions are updated with the same timeliness. For more information on the electronic versions of the Regulated Chemicals DirectoryTM, contact Chapman & Hall directly (One Penn Plaza, New York, NY 10119, fax-212-564-1505). Many companies working on product development need information on what may be regulated in the future. The RCDTM provides selected information on pending regulations and in-progress

testing lists, which can provide a starting place for tracking future regulatory considerations. Information for the RCDTM is continually gathered and updated. Suggestions from readers for information that should be added to the RCDTM or for other ways to improve the book are welcomed by Chapman & Hall. - Patricia L. Dsida, Pres. ChemADVISOR® , Inc. ix Part A. Chemical Lists and Indexes Section 1. Dangerous Properties of Industrial

Materials Report
Environmental Impact Statement
Handling and Management of Chemical Hazards, Updated Version
Standing Operating Procedures for Developing Acute Exposure Guideline Levels for Hazardous Chemicals
Safe Use of Chemicals

Extremely hazardous substances (EHSs) can be released accidentally as a result of 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 EHSs 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. As part of its efforts to develop acute exposure guideline levels for EHSs, EPA and the Agency for Toxic Substances and Disease Registry (ATSDR) in 1991 requested that the National Research Council (NRC) develop guidelines for establishing such levels. In response to that request, the

NRC published Guidelines for Developing Community Emergency Exposure Levels for Hazardous Substances in 1993. Subsequently, Standard Operating Procedures for Developing Acute Exposure Guideline Levels for Hazardous Substances was published in 2001, providing updated procedures, methodologies, and other guidelines used by the National Advisory Committee (NAC) on Acute Exposure Guideline Levels for Hazardous Substances and the Committee on Acute Exposure Guideline Levels (AEGLs) in developing the AEGL values. Using the 1993 and 2001 NRC guidelines reports, the NAC-consisting of members from EPA, the Department of Defense (DOD), the Department of Energy (DOE), the Department of Transportation (DOT), other federal

and state governments, the chemical industry, academia, and other organizations from the private sector-has developed AEGLs for more than 270 EHSs. In 1998, EPA and DOD requested that the NRC independently review the AEGLs developed by NAC. In response to that request, the NRC organized within its Committee on Toxicology (COT) the Committee on Acute Exposure Guideline Levels, which prepared this report. This report is the fourteenth volume in that series. Acute Exposure Guideline Levels for Selected Airborne Chemicals: Volume 14 summarizes the committee's conclusions and recommendations.

A practical handbook rather than merely a chemistry reference, Szycher's Handbook of Polyurethanes, Second

Edition offers an easy-to-follow compilation of crucial new information on polyurethane technology, which is irreplaceable in a wide range of applications. This new edition of a bestseller is an invaluable reference for technologists, marketer

The Regulated Chemicals DirectoryTM is meant to be a convenient source of information for everyone who needs to keep up-to-date regarding the regulations and recommendations that pertain to chemical substances. The RCDTM is designed to be the first reference book to consult when beginning compliance efforts. Every regulatory or advisory list used in the RCDTM is keyed to its source, to help readers who need more detailed information on regulations,

recommendations, or guidelines readily locate source documents. Some organizations now center their compliance efforts on computerized information stored in cross-referenced databases. A unique feature of the RCDTM is the availability of an electronic version suitable for use on ffiM-compatible personal computers, download onto mainframes and CD-ROM players. Both the print and electronic versions are updated with the same timeliness. For more information on the electronic versions of the Regulated Chemicals DirectoryTM, contact ChemADVISOR®, Inc. directly (750 William Pitt Way, Pittsburgh, PA 15238, phone 1-800-466-3750). Many companies working on product development need information on what may be regulated in the future. The RCDTM provides

selected information on pending regulations and in-progress testing lists, which can provide Ii starting place for tracking future regulatory considerations. Information for the RCvm is continually gathered and updated. Suggestions from readers for information that should be added to the RCvm or for other ways to improve the book are welcomed by Van Nostrand Reinhold. - Patricia L. Dsida, Pres. ChemADVISOR® , Inc. ix Part A. Chemical Lists and Indexes Section 1.

History, Theory, Practice

Toxicological Profile for Polycyclic Aromatic Hydrocarbons

Industrial Hygiene Control of Airborne Chemical Hazards

Plumas National Forest (N.F.), Lake Davis Pike Eradication Project

Toxicology Desk Reference

The first English-language book to comprehensively discuss the history and methodology of conserving medieval polychrome wood sculpture. Medieval polychrome wood sculptures are highly complex objects, bearers of histories that begin with their original carving and adornment and continue through long centuries of repainting, deterioration, restoration, and conservation. Abundantly illustrated, this book is the first in English to offer a comprehensive overview of the conservation of medieval painted wood sculpture for conservators, curators, and others charged with their care. Beginning with an illuminating discussion of the history, techniques, and meanings of these works, it continues with their examination and documentation, including chapters on

the identification of both the wooden support and the polychromy itself—the paint layers, metal leaf, and other materials used for these sculptures. The volume also covers the many aspects of treatment: the process of determining the best approach; consolidation and adhesion of paint, ground, and support; overpaint removal and surface cleaning; and compensation. Four case studies on artworks in the collection of The Cloisters in New York, a comprehensive bibliography, and a checklist to aid in documentation complement the text.

Does the identification number 60 indicate a toxic substance or a flammable solid, in the molten state at an elevated temperature? Does the identification number 1035 indicate ethane or butane? What is the difference between natural gas

transmission pipelines and natural gas distribution pipelines? If you came upon an overturned truck on the highway that was leaking, would you be able to identify if it was hazardous and know what steps to take? Questions like these and more are answered in the Emergency Response Guidebook. Learn how to identify symbols for and vehicles carrying toxic, flammable, explosive, radioactive, or otherwise harmful substances and how to respond once an incident involving those substances has been identified. Always be prepared in situations that are unfamiliar and dangerous and know how to rectify them. Keeping this guide around at all times will ensure that, if you were to come upon a transportation situation involving hazardous substances or dangerous goods, you will be able to help keep others and yourself out of danger. With

color-coded pages for quick and easy reference, this is the official manual used by first responders in the United States and Canada for transportation incidents involving dangerous goods or hazardous materials.

Includes: Immediately Dangerous to Life & Health Concentrations; International Chemical Safety Cards; NIOSH Certified Equipment List; NIOSH Manual of Analytical Methods; NIOSH Pocket Guide to Chemical Hazards; OSHA Sampling & Analytical Methods; Recommendations for Chemical Protective Clothing; Specific Medical Tests Published for OSHA Regulated Substances; Toxicologic Review of Selected Chemicals; & 2000 Emergency Response Guidebook. Includes Windows & Macintosh versions of Netscape Communicator & Adobe Acrobat Reader.

Toxicological Profile for Xylene
Gulf War and Health
Volume 2: Insecticides and Solvents
Dinitrotoluenes (DNT).
Industrial Exposure and Control Technologies for OSHA Regulated Hazardous Substances: Substances K-Z and indices

U.S. Navy personnel who work on submarines are in an enclosed and isolated environment for days or weeks at a time when at sea. To protect workers from potential adverse health effects due to those conditions, the U.S. Navy has established exposure guidance levels for a number of contaminants. In this

latest report in a series, the Navy asked the National Research Council (NRC) to review, and develop when necessary, exposure guidance levels for 11 contaminants. The report recommends exposure levels for hydrogen that are lower than current Navy guidelines. For all other contaminants (except for two for which there are insufficient data), recommended levels are similar to or slightly higher than those proposed by the Navy. The report finds that, overall, there is very little exposure data available on the submarine environment and echoes recommendations from earlier NRC reports to

expand exposure monitoring in submarines.
Niosh Pocket Guide to Chemical Hazardswww.Militarybookshop.CompanyUK
Providing a concise, yet comprehensive, reference on all aspectsof industrial exposures and toxicants; this book aidstoxicologists, industrial hygienists, and occupational physicianstо investigate workplace health problems. · Updates and expands coverage with new chapterscovering regulatory toxicology, toxicity testing, physical hazards,high production volume (HPV) chemicals, and workplace druguse · Includes information on occupational and

environmentalsources of exposure, mammalian toxicology, industrial hygiene,medical management and ecotoxicology · Retains a succinct chapter format that has become thehallmark for the previous editions · Distils a vast amount of information into one resourcefor both academics and professionals

NIOSH Pocket Guide to Chemical Hazards

Regulated Chemicals Directory 1995

Toxicological Profile for 1,2-dichloropropane

The Conservation of Medieval Polychrome Wood Sculpture

Hamilton and Hardy's Industrial Toxicology

A source of medical, legal and regulatory information on the toxicology of human exposure to metals and chemicals, this three-volume set is designed to be the first resource professionals turn to when formulating an opinion and developing a programme. It is annually updated to provide the latest information on over 150 chemical agents in a standar

Occupational workers frequently use, store, and dispose of toxic chemicals without knowing the possible consequences, both for the workplace and the environment. Improper use or misuse of chemical substances can result in health disorders, fatalities, or chemical disasters. Safe Use of Chemicals: A Practical Guide presents quick and comprehensive i

The NIOSH Pocket Guide to Chemical Hazards presents information taken from the NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards, from National Institute for Occupational Safety and Health (NIOSH) criteria documents and Current Intelligence Bulletins, and from recognized references in the fields of industrial hygiene, occupational medicine, toxicology, and analytical chemistry. The information is presented in tabular form to provide a quick, convenient source of information on general industrial hygiene practices. The information in the Pocket Guide includes chemical structures or formulas, identification codes, synonyms, exposure limits, chemical and physical properties, incompatibilities and reactivities, measurement methods, respirator selections, signs and

symptoms of exposure, and procedures for emergency treatment.

Emergency and Continuous Exposure Guidance Levels for Selected Submarine Contaminants

Emergency Response Guidebook

A Guide to the Work-relatedness of Disease

A Practical Guide

Szycher's Handbook of Polyurethanes, First Edition

This book serves as a primary textbook for environmental site investigation and remediation of subsurface soil and groundwater. It introduces concepts and principles of field investigative techniques to adequately determine

the extent of contamination in the subsurface for the selection of cleanup alternatives. It then focuses on practical calculations and skills needed to design and operate remediation systems that will both educate students and be useful for entry-level professionals in the field. Features: • Examines the practical aspects of investigating and cleaning up contaminated soil and groundwater • Contains scenarios, illustrations, equations, and example problems with discussions that illustrate various practical situations and interpret the results • Includes

end-of-chapter problems to reinforce student learning • Provides a regulatory and risk analysis context, as well as public and community involvement aspects • Discusses sustainability and performance assessment of the remediation methods presented Site Assessment and Remediation for Environmental Engineers provides upper-level undergraduate and graduate students with practical, project-oriented knowledge of how to investigate and clean up a site contaminated with chemicals and hazardous waste.

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.

This book provides plant managers, supervisors, safety professionals, and industrial hygienists with recommended procedures and guidance for safe entry into confined spaces. It reviews selected case histories of confined space accidents, including multiple fatalities, and discusses how a confined space entry program

could have prevented them. It outlines the requirements of the OSHA permit-entry confined space standard and provides detailed explanations of requirements for lockout/tagout, air sampling, ventilation, emergency planning, and employee training. The book is filled with more than 100 line drawings and more than 150 photographs.

Szycher's Handbook of Polyurethanes

Prudent Practices in the Laboratory

Volume 14

Site Assessment and Remediation for

Environmental Engineers

NIOSH Pocket Guide to Chemical Hazards, September 2005, August 2006 (Book)

Do you need guidelines for choosing a substitute organic solvent that is safer to use? Do you need an effective, cheap but perhaps temporary way to reduce exposures before you can convince your employer to spend money on a long-term or more reliable solution? Do you need information about local exhaust ventilation or personal

protective equipment like respirators and gloves? Industrial Hygiene Control of Airborne Chemical Hazards provides the answers to these questions and more. Science-based and quantitative, the book introduces methods for controlling exposures in diverse settings, focusing squarely on airborne chemical hazards. It bridges the gap between existing knowledge of physical principles and their modern application with a wealth of recommendations,

techniques, and tools accumulated by generations of IH practitioners to control chemical hazards. Provides a unique, comprehensive tool for facing the challenges of controlling chemical hazards in the workplace. Although William Popendorf has written the book at a fundamental level, he assumes the reader has some experience in science and math, as well as in manufacturing or other work settings with chemical hazards, but is inexperienced in the

selection, design, implementation, or management of chemical exposure control systems. Where the book is quantitative, of course there are lots of formulae, but in general the author avoids vague notation and long derivations.

Gives you quick access to the information you need to recognize and deal with chemical hazards in the workplace. It recommends appropriate actions to take when encountering a

potentially hazardous substance, including the latest data on: chemical types and descriptions, health hazards, exposure signs and symptoms, emergency treatment, personal protection, cleanup precautions and much more. Provides key information and data on 677 hazardous chemicals or substances that you may encounter in the work environment. Spiral bound.

Gulf War and Health, Volume 2, is the second in a series of congressionally-

mandated studies by the Institute of Medicine that provides a comprehensive assessment of the available scientific literature on potential health effects of exposure to certain biological, chemical, and environmental agents associated with the Gulf War. In this second study, the committee evaluated the published, peer-reviewed literature on exposure to insecticides and solvents thought to have been present during the 1990-1991 war. Because

little information exists on actual exposure levels â€" a critical factor when assessing health effects â€" the committee could not draw specific conclusions about the health problems of Gulf War veterans. However, the study found some evidence, although usually limited, to link specific long-term health outcomes with exposure to certain insecticides and solvents. The next phase of the series will examine the literature on potential health

effects associated with exposure to selected environmental pollutants and particulates, such as oil-well fires and jet fuels.

Gas Flows in Microsystems

A Guidebook for First Responders during the Initial Phase of a Dangerous Goods/Hazardous Materials Transportation Incident

NASA is aware of the potential toxicologic hazards to crew that might be associated with

prolonged spacecraft missions. Despite major engineering advances in controlling the atmosphere within spacecraft, some contamination of the air appears inevitable. NASA has measured numerous airborne contaminants during space missions. As the missions increase in duration and complexity, ensuring the health and well-being of astronauts traveling and working in this unique environment becomes increasingly difficult. As part of its efforts to promote safe conditions aboard spacecraft, NASA requested

the National Research Council to develop guidelines for establishing spacecraft maximum allowable concentrations (SMACs) for contaminants and to review SMACs for various spacecraft contaminants to determine whether NASA's recommended exposure limits are consistent with the guidelines recommended by the committee. This book is the fifth volume in the series Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants, and presents SMACs for acrolein, C3 to C8 aliphatic

saturated aldehydes, C2 to C9 alkanes, ammonia, benzene, carbon dioxide, carbon monoxide, 1,2-dichloroethane, dimethylhydrazine, ethanol, formaldehyde, limonene, methanol, methylene dichloride, n-butanol, propylene glycol, toluene, trimethylsilanol, and xylenes.

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chemical identifiers and regulations. *The only single source reference that provides such in-depth information for each chemical. *The two volume set is designed for fast and accurate decision making in any situation.