

REVIEW OF
SUBMARINE
ESCAPE ACTION LEVELS
FOR SELECTED CHEMICALS

NATIONAL RESEARCH COUNCIL



Review Of Submarine Escape Action Levels

**Committee on Acute Exposure
Guideline Levels, Committee on
Toxicology, Board on Environmental
Studies and Toxicology, Division on
Earth and Life Studies, National
Research Council**

Review Of Submarine Escape Action Levels:

Review of Submarine Escape Action Levels for Selected Chemicals National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Subcommittee on Submarine Escape Action Levels, 2002-02-04 On board fires can occur on submarines after events such as collision or explosion These fires expose crew members to toxic concentrations of combustion products such as ammonia carbon monoxide hydrogen chloride and hydrogen sulfide Exposure to these substances at high concentrations may cause toxic effects to the respiratory and central nervous system leading possible to death To protect crew members on disabled submarines scientists at the U S Navy Health Research Center's Toxicology Detachment have proposed two exposure levels called submarine escape action level SEAL 1 and SEAL 2 for each substance SEAL 1 is the maximum concentration of a gas in a disabled submarine below which healthy submariners can be exposed for up to 10 days without encountering irreversible health effects while SEAL 2 the maximum concentration of a gas in below which healthy submariners can be exposed for up to 24 hours without experiencing irreversible health effects SEAL 1 and SEAL 2 will not impair the functions of the respiratory system and central nervous system to the extent of impairing the ability of crew members in a disabled submarine to escape be rescued or perform specific tasks Hoping to better protect the safety of submariners the chief of the Bureau of Medicine and Surgery requested that the National Research Council NRC review the available toxicologic and epidemiologic data on eight gases that are likely to be produced in a disabled submarine and to evaluate independently the scientific validity of the Navy's proposed SEALs for those gases The NRC assigned the task to the Committee on Toxicology's COT's Subcommittee on Submarine Escape Action Levels The specific task of the subcommittee was to review the toxicologic epidemiologic and related data on ammonia carbon monoxide chlorine hydrogen chloride hydrogen cyanide hydrogen sulfide nitrogen dioxide and sulfur dioxide in order to validate the Navy's proposed SEALs The subcommittee also considered the implications of exposures at hyperbaric conditions and potential interactions between the eight gases *Review of Submarine Escape Action Levels for Selected Chemicals* presents the subcommittee's findings after evaluation human data from experimental occupational and epidemiologic studies data from accident reports and experimental animal data The evaluations focused primarily on high concentration inhalation exposure studies The subcommittee's recommended SEALs are based solely on scientific data relevant to health effects The report includes the recommendations for each gas as determined by the subcommittee as well as the Navy's original instructions for these substances

Review of Submarine Escape Action Levels for Selected Chemicals National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Subcommittee on Submarine Escape Action Levels, 2002-03-04 On board fires can occur on submarines after events such as collision or explosion These fires expose crew members to toxic concentrations of combustion products such as ammonia carbon monoxide hydrogen chloride and hydrogen sulfide Exposure to these

substances at high concentrations may cause toxic effects to the respiratory and central nervous system leading possible to death To protect crew members on disabled submarines scientists at the U S Navy Health Research Center's Toxicology Detachment have proposed two exposure levels called submarine escape action level SEAL 1 and SEAL 2 for each substance SEAL 1 is the maximum concentration of a gas in a disabled submarine below which healthy submariners can be exposed for up to 10 days without encountering irreversible health effects while SEAL 2 the maximum concentration of a gas in below which healthy submariners can be exposed for up to 24 hours without experiencing irreversible health effects SEAL 1 and SEAL 2 will not impair the functions of the respiratory system and central nervous system to the extent of impairing the ability of crew members in a disabled submarine to escape be rescued or perform specific tasks Hoping to better protect the safety of submariners the chief of the Bureau of Medicine and Surgery requested that the National Research Council NRC review the available toxicologic and epidemiologic data on eight gases that are likely to be produced in a disabled submarine and to evaluate independently the scientific validity of the Navy's proposed SEALs for those gases The NRC assigned the task to the Committee on Toxicology's COT's Subcommittee on Submarine Escape Action Levels The specific task of the subcommittee was to review the toxicologic epidemiologic and related data on ammonia carbon monoxide chlorine hydrogen chloride hydrogen cyanide hydrogen sulfide nitrogen dioxide and sulfur dioxide in order to validate the Navy's proposed SEALs The subcommittee also considered the implications of exposures at hyperbaric conditions and potential interactions between the eight gases Review of Submarine Escape Action Levels for Selected Chemicals presents the subcommittee's findings after evaluation human data from experimental occupational and epidemiologic studies data from accident reports and experimental animal data The evaluations focused primarily on high concentration inhalation exposure studies The subcommittee's recommended SEALs are based solely on scientific data relevant to health effects The report includes the recommendations for each gas as determined by the subcommittee as well as the Navy's original instructions for these substances

Fluoride in Drinking Water National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Fluoride in Drinking Water, 2007-01-22 Most people associate fluoride with the practice of intentionally adding fluoride to public drinking water supplies for the prevention of tooth decay However fluoride can also enter public water systems from natural sources including runoff from the weathering of fluoride containing rocks and soils and leaching from soil into groundwater Fluoride pollution from various industrial emissions can also contaminate water supplies In a few areas of the United States fluoride concentrations in water are much higher than normal mostly from natural sources Fluoride is one of the drinking water contaminants regulated by the U S Environmental Protection Agency EPA because it can occur at these toxic levels In 1986 the EPA established a maximum allowable concentration for fluoride in drinking water of 4 milligrams per liter a guideline designed to prevent the public from being exposed to harmful levels of fluoride Fluoride in Drinking Water reviews research on various health effects from exposure to

fluoride including studies conducted in the last 10 years

Managing Health Effects of Beryllium Exposure National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Beryllium Alloy Exposures, 2008-09-29 Beryllium is a lightweight metal that is used for its exceptional strength and high heat absorbing capability Beryllium and its alloys can be found in many important technologies in the defense and aeronautics industries such as nuclear devices satellite systems radar systems and aircraft bushings and bearings Pulmonary disease associated with exposure to beryllium has been recognized and studied since the early 1940s and an occupational guideline for limiting exposure to beryllium has been in place since 1949 Over the last few decades much has been learned about chronic beryllium disease and factors that contribute to its occurrence in exposed people Despite reduced workplace exposure chronic beryllium disease continues to occur Those developments have led to debates about the adequacy of the long standing occupational exposure limit for protecting worker health This book requested by the U S Air Force to help to determine the steps necessary to protect its workforce from the effects of beryllium used in military aerospace applications reviews the scientific literature on beryllium and outlines an exposure and disease management program for its protecting workers

Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Spacecraft Exposure Guidelines, 2008-12-24 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

Combined Exposures to Hydrogen Cyanide and Carbon Monoxide in Army Operations National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Combined Exposures to Hydrogen Cyanide and Carbon Monoxide in Army Operations, 2008-11-15 To determine whether the air quality inside armored vehicle cabins can meet exposure guidelines under deployment conditions the Army assessed possible synergistic

toxic effects from potentially harmful substances This book the final of two reports on the subject from the National Research Council addresses whether the approach discussed in the technical context section of the Army s proposed guidance is appropriate or whether an alternative assessment method should be developed Combined Exposures to Hydrogen Cyanide and Carbon Monoxide in Army Operations provides several conclusions and recommendations including the use of alternative instrumentation for monitoring gas conducting experiments on human subjects and seeking advice from additional groups involved with personnel training and field deployment Spacecraft Water Exposure Guidelines for Selected Contaminants National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Spacecraft Exposure Guidelines, 2008-11-21 NASA maintains an active interest in the environmental conditions associated with living and working in spacecraft and identifying hazards that might adversely affect the health and well being of crew members Despite major engineering advances in controlling the spacecraft environment some water and air contamination is inevitable Several hundred chemical species are likely to be found in the closed environment of the spacecraft and as the frequency complexity and duration of human space flight increase identifying and understanding significant health hazards will become more complicated and more critical for the success of the missions To protect space crews from contaminants in potable and hygiene water NASA requested that the National Research Council NRC provide guidance on how to develop water exposure guidelines and subsequently review NASA s development of the exposure guidelines for specific chemicals This book presents spacecraft water exposure guidelines SWEs for antimony benzene ethylene glycol methanol methyl ethyl ketone and propylene glycol 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, 2013-05-26 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

Nineteenth Interim Report of the Committee on Acute Exposure Guideline Levels Committee on Acute Exposure Guideline Levels, Committee on Toxicology, National Research Council, 2011-01-27 The present report is the committee s 19th interim report It summarizes the committee s conclusions and recommendations for improving NAC s AEGL documents for the following chemicals and chemical classes acrylonitrile benzonitrile boron tribromide BZ 3 quinuclidinyl benzilate chloroarsenicals chloroformates bis chloromethylether chloromethylether chlorosilanes 26 selected compounds cyanogen ethyl mercaptan hexafluoroacetone lewisites mercury vapor nitric acid nitric oxide nitrogen dioxide nitrogen tetroxide oleum phenyl mercaptan propargyl alcohol selenium hexafluoride silane sulfur trioxide sulfuric acid tear gas tert octyl mercaptan tetramethoxy silane thionyl chloride trimethoxysilane trimethylbenzenes 1 2 4 1 2 5 and 1 3 5 TMB and vinyl chloride

Iodotrifluoromethane National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Subcommittee on Iodotrifluoromethane, 2004-12-23 The U S military is considering using a compound called iodotrifluoromethane CF3I for fire suppression to replace previously used compounds halons that are being phased out because they deplete the ozone layer This report reviews available toxicological data on CF3I and evaluates the scientific basis of the U S Army s proposed exposure limit of 2 000 parts per million ppm The report recommends that CF3I be used for fire suppression in normally unoccupied spaces because of its potential to cause cardiac sensitization in test animals The report also recommends that further genotoxicity testing be conducted testing for changes in genetic material and that CF3I be assessed for its potential to cause cancer Should the Army decide to use CF3I information should be collected and evaluated on how much of the chemical or any of its degradation products might be released and how often

Toxicologic Assessment of Jet-Propulsion Fuel 8 National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Subcommittee on Jet-Propulsion Fuel 8, 2003-02-14 This report provides a critical review of toxicologic epidemiologic and other relevant data on jet propulsion fuel 8 a type of fuel in wide use by the U S Department of Defense DOD and an evaluation of the scientific basis of DOD s interim permissible exposure level of 350 mg m³

Emergency and Continuous Exposure Guidance Levels for Selected Submarine

Contaminants National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Emergency and Continuous Exposure Guidance Levels for Selected Submarine Contaminants, 2008-06-09 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

Occupational Health and the Service Member Timothy M. Mallon, 2019-04-03 This book will relate the history of occupational health efforts in each of the military services and describe the current programs including discussion of the occurrence and prevention of occupational threats to service members and civilians from the environment and military equipment Individual chapters will focus on medical evaluations workers compensation surveillance ergonomics hearing protection radiation specific hazardous substances and particular environments such as aerospace and underseas It is a revised updated and expanded version of the occupational health Textbook of Military Medicine published in 1993

Acute Exposure Guideline Levels for Selected Airborne Chemicals Committee on Acute Exposure Guideline Levels, Committee on Toxicology, Board on Environmental Studies and Toxicology, Division on Earth and Life Studies, National Research Council, 2013-10-10 Acute Exposure Guideline Levels for Selected Airborne Chemicals Volume 15 identifies reviews and interprets relevant toxicologic and other scientific data for ethyl mercaptan methyl mercaptan phenyl mercaptan tert octyl mercaptan lewisite methyl isothiocyanate and selected monoisocyanates 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 level 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

Job Interview Questions and Answers for Hiring on Onshore Drilling Rigs Petrogav International, 2020-01-08 The book contains 256 questions and answers for job interview for hiring on onshore drilling rigs

Review of the Environmental Protection Agency's Draft IRIS Assessment of Formaldehyde National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee to Review EPA's Draft IRIS Assessment of

Formaldehyde,2011-07-01 Formaldehyde is ubiquitous in indoor and outdoor air and everyone is exposed to formaldehyde at some concentration daily Formaldehyde is used to produce a wide array of products particularly building materials it is emitted from many sources including power plants cars gas and wood stoves and cigarettes it is a natural product in some foods and it is naturally present in the human body as a metabolic intermediate Much research has been conducted on the health effects of exposure to formaldehyde including effects on the upper airway where formaldehyde is deposited when inhaled and effects on tissues distant from the site of initial contact The U S Environmental Protection Agency EPA released noncancer and cancer assessments of formaldehyde for its Integrated Risk Information System IRIS in 1990 and 1991 respectively The agency began reassessing formaldehyde in 1998 and released a draft IRIS assessment in June 2010 Given the complexity of the issues and the knowledge that the assessment will be used as the basis of regulatory decisions EPA asked the National Research Council NRC to conduct an independent scientific review of the draft IRIS assessment In this report the Committee to Review EPA's Draft IRIS Assessment of Formaldehyde first addresses some general issues associated with the draft IRIS assessment The committee next focuses on questions concerning specific aspects of the draft assessment including derivation of the reference concentrations and the cancer unit risk estimates for formaldehyde The committee closes with recommendations for improving the IRIS assessment of formaldehyde and provides some general comments on the IRIS development process

Production Course for Hiring on Offshore Oil and Gas Rigs Petrogav International, This course provides a non technical overview of the phases operations and terminology used on offshore oil and gas rigs It is intended also for non production personnel who work in the offshore drilling exploration and production industry This includes marine and logistics personnel accounting administrative and support staff environmental professionals etc No prior experience or knowledge of drilling operations is required This course will provide participants a better understanding of the issues faced in all aspects of production operations with a particular focus on the unique aspects of offshore operations

Training for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it is always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 275 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *150 technical questions and answers for job interview Offshore Drilling Rigs* Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it is always important to be

prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS 230 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *Offshore Oil & Gas Rigs JOB INTERVIEW* Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 272 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

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