TABLE 2-5 Ammonia's Mucosal Irritation in Humans

Concentration, ppm	Time	Exposed Subjects	Effect	Reference
20	Occupational	Unadapted workers in manufacturing plants for NH_3, nitrate, and urea	Eye and respiratory discomfort	Vigliani and Zurlo, 1956
20	Occupational	Workers in a naval shipyard	Discomfort and annoyance	Ferguson et al., 1977
30	10 min	2 of 5 unadapted subjects	Irritation just perceptible	MacEwen et al., 1970

Because 30-ppm ammonia caused only just perceptible irritation in 10 min, it is not expected to produce more than mild irritation in 1 h. The 1-h SMAC is, therefore, set at 30 ppm. Although some irritation is acceptable for the 24-h SMAC, it should be set lower than the 1-h SMAC to reduce the degree of slight irritation astronauts have to endure in a 24-h contingency. Since 20-ppm ammonia has been shown to produce only eye and nose discomfort in workers (Vigliani and Zurlo, 1956; Ferguson et al., 1977), the 24-h SMAC is set at 20 ppm.

It should be noted that, even though the 1-h SMAC was based on the response in only five subjects, no adjustment for a "small n" is needed owing to the fact that a certain degree of mucosal irritation is acceptable in a 1-h or 24-h contingencies, so a smaller margin of safety is acceptable in the derivation of the 1-h and 24-h SMACs based on irritation.

7-d SMAC

There are no data on the effect of ammonia on humans after long-term continuous exposures. A continuous exposure to ammonia at 57 ppm for 114 d or 180 ppm for 90 d produced no adverse histological effects on monkeys, dogs, rats, and rabbits (Coon et al., 1970). However, the 7-d, 30-d, and 180-d SMACs are not set relying on these animal data because the data provide no information on irritation sensation of ammonia.

Spacecraft Maximum Allowable Concentrations For Selected Airborne Contaminants

National Research Council,Commission on Life Sciences,Board on Environmental Studies and Toxicology,Committee on Toxicology,Subcommittee on Spacecraft Water Exposure Guidelines

Spacecraft Maximum Allowable Concentrations For Selected Airborne Contaminants:

Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants Subcommittee on Spacecraft Maximum Allowable Concentration,Commission on Life Sciences,Division on Earth and Life Studies,National Research Council,1996-02-08 The National Aeronautics and Space Administration NASA has developed spacecraft maximum allowable concentrations SMACs for contaminants that might be found in the atmosphere within spacecraft during space missions to ensure the health and well being of astronauts traveling and working in this unique environment In volume 1 of this series NASA developed SMACs for 11 compounds acetaldehyde ammonia carbon monoxide formaldehyde Freon 113 hydrogen methane methanol octamethyltrisiloxane trimethylsilanol and vinyl chloride Volume 2 includes SMACs for 12 more airborne contaminants acrolein benzene carbon dioxide 2 ethoxyethanol hydrazine indole mercury methylene chloride methyl ethyl ketone nitromethane 2 propoanol and toluene In developing SMACs from the toxicological literature NASA followed the Guidelines for Developing Spacecraft Maximum Allowable Concentrations for Space Station Contaminants published in 1992 by the National Research Council *Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants* National Research Council,Commission on Life Sciences,Board on Environmental Studies and Toxicology,Committee on Toxicology,Subcommittee on Spacecraft Maximum Allowable Concentrations,2000-03-02 The National Aeronautics and Space Administration NASA is aware of the potential toxicological hazards to crew members 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 NRC 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 subcommittee In response to this request the NRC first developed criteria and methods for preparing SMACs for spacecraft contaminants published in its 1992 report Guidelines for Developing Spacecraft Maximum Allowable Concentrations for Space Station Contaminants Since then the NRC s Subcommittee on Spacecraft Maximum Allowable Concentrations has been reviewing NASA s documentation of chemical specific SMACs This report is the fourth volume in the series Spacecraft Maximum Allowable Concentrations for Space Station Contaminants The first volume was published in 1994 and the second and third in 1996 Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants Volume 4 has been reviewed in draft form by individuals chosen for their technical expertise and diverse perspectives in accordance with procedures approved by the NRC s Report Review Committee for reviewing NRC and Institute of Medicine reports The purpose of that Independent review was to

provide candid and critical comments to assist the NRC in making the published report as sound as possible and to ensure that the report meets institutional standards for objectivity evidence and responsiveness to the study charge The review comments and draft manuscript remain confidential to protect the integrity of the deliberative process Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants National Research Council,Division on Earth and Life Studies,Commission on Life Sciences,Subcommittee on Spacecraft Maximum Allowable Concentrations,1997-02-02 The National Aeronautics and Space Administration NASA has measured numerous airborne contaminants in spacecraft during space missions because of the potential toxicological hazards to humans that might be associated with prolonged spacecraft missions This volume reviews the spacecraft maximum allowable concentrations SMACs for various contaminants to determine whether NASA s recommended exposure limits are consistent with recommendations in the National Research Council s 1992 volume Guidelines for Developing Spacecraft Maximum Allowable Concentrations for Space Station Contaminants **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 *Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants* National Research Council (U.S.). Subcommittee on Spacecraft Maximum Allowable Concentrations,1994 **Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants** ,2000 The National Aeronautics and Space Administration NASA is aware of the potential toxicological hazards to crew members 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 NRC 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 subcommittee In response to this request the NRC first developed criteria and methods for preparing SMACs for spacecraft contaminants published in its 1992 report Guidelines for Developing Spacecraft Maximum Allowable Concentrations for Space Station Contaminants Since then the NRC s Subcommittee on Spacecraft Maximum Allowable Concentrations has been reviewing NASA s documentation of chemical specific SMACs This report is the fourth volume in the series Spacecraft Maximum Allowable Concentrations for Space Station Contaminants The first volume was published in 1994 and the second and third in 1996 Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants Volume 4 has been reviewed in draft form by individuals chosen for their technical expertise and diverse perspectives in accordance with procedures approved by the NRC s Report Review Committee for reviewing NRC and Institute of Medicine reports The purpose of that Independent review was to provide candid and critical comments to assist the NRC in making the published report as sound as possible and to ensure that the report meets institutional standards for objectivity evidence and responsiveness to the study charge The review comments and draft manuscript remain confidential to protect the integrity of the deliberative process **Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants** Subcommittee on Spacecraft Maximum Allowable Concentration,Commission on Life Sciences,Division on Earth and Life Studies,National Research Council,1996-02-08 The National Aeronautics and Space Administration NASA has developed spacecraft maximum allowable concentrations SMACs for contaminants that might be found in the atmosphere within spacecraft during space missions to ensure the health and well being of astronauts traveling and working in this unique environment In volume 1 of this series NASA developed SMACs for 11 compounds acetaldehyde ammonia carbon monoxide formaldehyde Freon 113 hydrogen methane methanol octamethyltrisiloxane trimethylsilanol and vinyl chloride Volume 2 includes SMACs for 12 more airborne contaminants acrolein benzene carbon dioxide 2 ethoxyethanol hydrazine indole mercury methylene chloride methyl ethyl ketone nitromethane 2 propoanol and toluene In developing SMACs from the toxicological literature NASA followed the Guidelines for Developing Spacecraft Maximum Allowable Concentrations for Space Station Contaminants published in 1992 by the National Research Council *Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants* - ,1994 **Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants** ,1994 **Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants -** ,1996 **Spacecraft Maximum Allowable Concentrations For Selected Airborne Contaminants ... NASA-CR-204302 ... Sep. 16, 1997** ,1998

Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants ,1994 *Toxicology Principles for the Industrial Hygienist* William E. Luttrell,Warren W. Jederberg,Kenneth R. Still,2008 Focuses on the applications of toxicology principles to the practice of industrial hygiene using case studies as examples 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 **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,2007-03-27 In 1993 the National Research Council s Committee on Toxicology developed criteria and methods for EPA and the Agency for Toxic Substances and Disease Registry ATSDR to develop community emergency exposure levels for extremely hazardous substances for the general population A few years later the National Advisory Committee for Acute Exposure Guideline Levels for Hazardous Substances NAC composed of members of EPA DOD other federal and state agencies industry academia and other organizations was established to identify review and interpret toxicologic and other scientific data to develop acute exposure guidelines AEGLs for high priority acutely toxic chemicals Three levels AEGL 1 AEGL 2 and AEGL 3 are developed for each of five exposure periods 10 min 30 min 1 hr 4 hr and 8 hr and are distinguished by varying degrees of severity of toxic effects This current report reviews the NAC reports for their scientific validity completeness and consistency with the NRC guideline reports developed in 1993 and 2001 This report is the fifth volume in the series and covers AEGLs for chlorine dioxide chlorine trifluoride cyclohexylamine ethylenediamine hydrofluoroether 7100 and tetranitromethane It concludes that the AEGLs developed by NAC are scientifically valid and consistent with the NRC guideline reports AEGLs are needed for a wide range of planning response and prevention applications These values provide data critical to evacuation decisions and discussions between community leaders and industries as they seek ways to minimize the health impact should the chemical release occur Some of the finalized AEGLs have been officially adopted by the Department of the Army FEMA

and the Department of Transportation as the official levels for use by those agencies **Refinements to the Methods for Developing Spacecraft Exposure Guidelines** National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Board on Environmental Studies and Toxicology,Committee on Spacecraft Exposure Guidelines,2016-05-07 Human spaceflight is inherently risky with numerous potential hazards posed at each phase of a mission Potential health risks during spaceflights include short term health consequences from being in microgravity as well as long term health consequences that arise or continue months or years after a flight Additional health considerations are risks posed by exposure to environmental contaminants onboard spacecraft Because the International Space Station and spacecraft are closed environments that require recirculation of air and water supplies some contamination of the air and water will occur Even with onboard air and water purification systems chemicals will accumulate in the air and water as they recirculate or are recycled onboard Therefore it is necessary for the National Aeronautics and Space Administration NASA to identify hazardous contaminants and determine exposure levels that are not expected to pose a health risk to astronauts NASA uses spacecraft maximum allowance concentrations SMACs and spacecraft water exposure guidelines SWEGs to provide guidance on acceptable exposures to air and water contaminants during normal operations and emergency situations Refinements to the Methods for Developing Spacecraft Exposure Guidelines updates the methods for establishing SMACs and SWEGs and assists NASA with identifying chemicals that need updated SMACs or SWEGs and new chemicals for which these guidelines should be developed **Methods for Developing Spacecraft Water Exposure Guidelines** National Research Council,Commission on Life Sciences,Board on Environmental Studies and Toxicology,Committee on Toxicology,Subcommittee on Spacecraft Water Exposure Guidelines,2000-10-18 The National Aeronautics and Space Administration 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 appears to be 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 NASA asked the National Research Council NRC Committee on Toxicology to develop guidelines similar to those developed by the NRC in 1992 for airborne substances for examining the likelihood of adverse effects from water contaminants on the health and performance of spacecraft crews In this report the Subcommittee on Spacecraft Water Exposure Guidelines SWEGs examines what is known about water contaminants in spacecraft the adequacy of current risk assessment methods and the toxicologic issues of greatest concern

Safety Design for Space Systems Gary Eugene Musgrave,Axel Larsen,Tommaso Sgobba,2009-03-27 Progress in space safety lies in the acceptance of safety design and engineering as an integral part of the design and implementation process

for new space systems Safety must be seen as the principle design driver of utmost importance from the outset of the design process which is only achieved through a culture change that moves all stakeholders toward front end loaded safety concepts This approach entails a common understanding and mastering of basic principles of safety design for space systems at all levels of the program organisation Fully supported by the International Association for the Advancement of Space Safety IAASS written by the leading figures in the industry with frontline experience from projects ranging from the Apollo missions Skylab the Space Shuttle and the International Space Station this book provides a comprehensive reference for aerospace engineers in industry It addresses each of the key elements that impact on space systems safety including the space environment natural and induced human physiology in space human rating factors emergency capabilities launch propellants and oxidizer systems life support systems battery and fuel cell safety nuclear power generators NPG safety habitat activities fire protection safety critical software development collision avoidance systems design operations and on orbit maintenance The only comprehensive space systems safety reference its must have status within space agencies and suppliers technical and aerospace libraries is practically guaranteed Written by the leading figures in the industry from NASA ESA JAXA et cetera with frontline experience from projects ranging from the Apollo missions Skylab the Space Shuttle small and large satellite systems and the International Space Station Superb quality information for engineers programme managers suppliers and aerospace technologists fully supported by the IAASS International Association for the Advancement of Space Safety **Safety Design for Space Systems** Tommaso Sgobba,Gary Eugene Musgrave,Gary Johnson,Michael T. Kezirian,2023-07-25 The lack of widespread education in space safety engineering and management has profound effects on project team effectiveness in integrating safety during design On one side it slows down the professional development of junior safety engineers while on the other side it creates a sectarian attitude that isolates safety engineers from the rest of the project team To speed up professional development bridge the gap within the team and prevent hampered communication and missed feedback the entire project team needs to acquire and develop a shared culture of space safety principles and techniques The second edition of Safety Design for Space Systems continues to address these issues with substantial updates to chapters such as battery safety life support systems robotic systems safety and fire safety This book also features new chapters on crew survivability design and nuclear space systems safety Finally the discussion of human rating concepts safety by design principles and safety management practices have also been revised and improved With contributions from leading experts worldwide this second edition represents an essential educational resource and reference tool for engineers and managers working on space projects Provides basic multidisciplinary knowledge on space systems safety design Addresses how space safety engineering and management can be implemented in practice Includes new chapters on crew survivability design and nuclear space systems safety Fully revised and updated to reflect the latest developments in the field Safe on Mars National Research Council,Division on Engineering and Physical Sciences,Space

Studies Board,Aeronautics and Space Engineering Board,Committee on Precursor Measurements Necessary to Support Human Operations on the Surface of Mars,2002-05-29 This study commissioned by the National Aeronautics and Space Administration NASA examines the role of robotic exploration missions in assessing the risks to the first human missions to Mars Only those hazards arising from exposure to environmental chemical and biological agents on the planet are assessed To ensure that it was including all previously identified hazards in its study the Committee on Precursor Measurements Necessary to Support Human Operations on the Surface of Mars referred to the most recent report from NASA s Mars Exploration Program Payload Analysis Group MEPAG Greeley 2001 The committee concluded that the requirements identified in the present NRC report are indeed the only ones essential for NASA to pursue in order to mitigate potential hazards to the first human missions to Mars

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