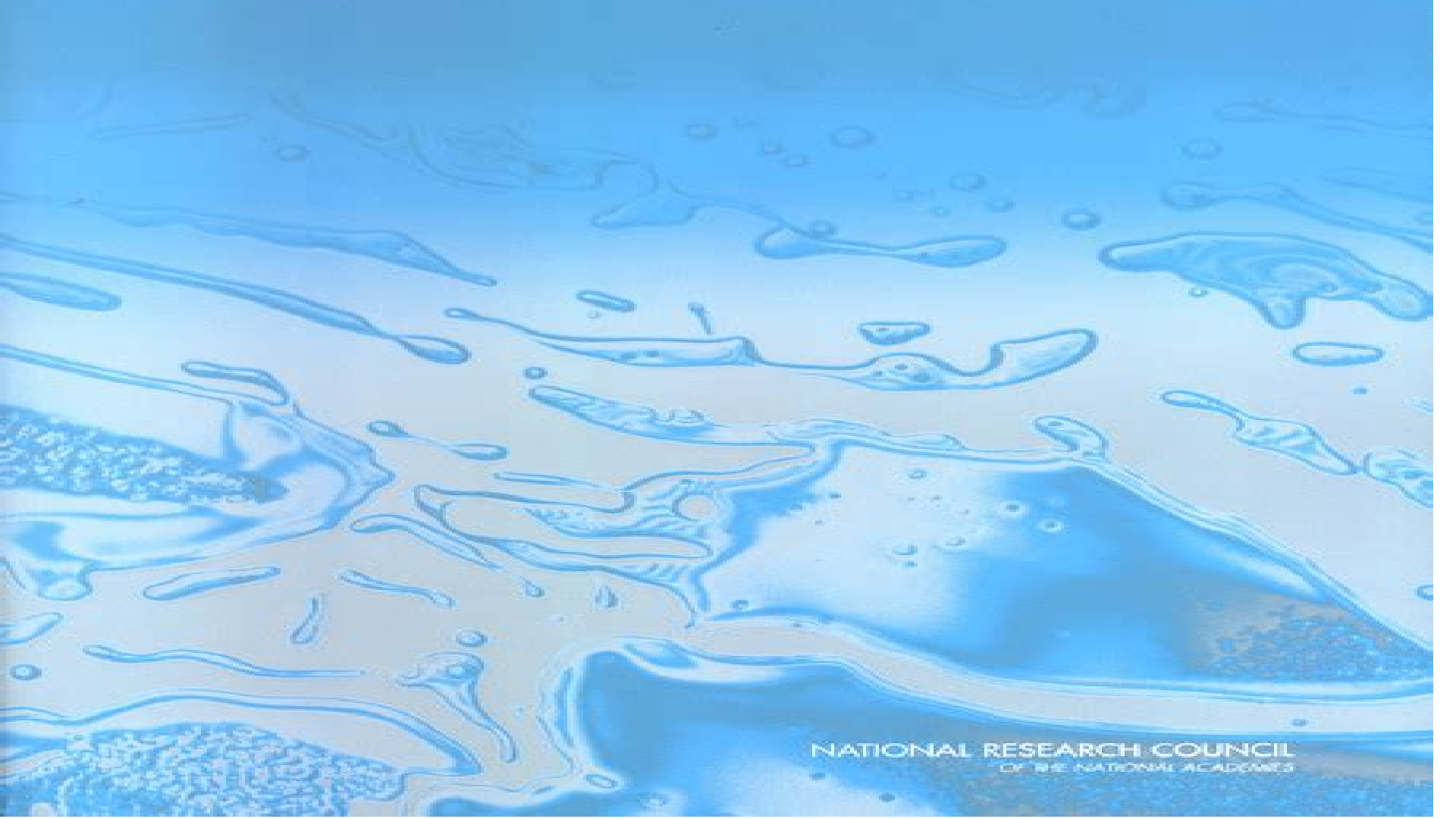


OIL SPILL DISPERSANTS

EFFICACY AND EFFECTS



NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES

Oil Spill Dispersants Efficacy And Effects

Mervin Fingas



Oil Spill Dispersants Efficacy And Effects:

Oil Spill Dispersants ,2005 *Oil Spill Dispersants* Committee on Understanding Oil Spill Dispersants: Efficacy and Effects,Ocean Studies Board,2005 Approximately 3 million gallons of oil or refined petroleum products are spilled into U S waters every year Oil dispersants chemical agents such as surfactants solvents and other compounds are used to reduce the effect of oil spills by changing the chemical and physical properties of the oil By enhancing the amount of oil that physically mixes into the water dispersants can reduce the potential that a surface slick will contaminate shoreline habitats Although called for in the Oil Pollution Act of 1990 as a tool for minimizing the impact of oil spills the use of chemical dispersants has long been controversial This book reviews the adequacy of existing information and ongoing research regarding the effectiveness of dispersants as an oil spill response technique as well as the effect of dispersed oil on marine and coastal ecosystems Oil Spill Dispersants also includes recommended steps for policy makers faced with making hard choices regarding the use of dispersants as part of spill contingency planning efforts or during actual spills Using Oil Spill Dispersants on the Sea National Research Council,Division on Engineering and Physical Sciences,Commission on Engineering and Technical Systems,Marine Board,Committee on Effectiveness of Oil Spill Dispersants,1989-01-01 While major oil spills are rare oil slicks can have disastrous environmental and economic consequences This book summarizes research on the use of chemical dispersants their effectiveness and limitations and the results of using them in different spill situations Based on laboratory and field research as well as on actual case histories this book contains a clear cut set of recommendations for action planning and research Of special interest is the chapter on the biological effects of oil itself and of oil treated with chemical dispersants *The Use of Dispersants in Marine Oil Spill Response* National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Board on Environmental Studies and Toxicology,Ocean Studies Board,Committee on the Evaluation of the Use of Chemical Dispersants in Oil Spill Response,2020-05-24 Whether the result of an oil well blowout vessel collision or grounding leaking pipeline or other incident at sea each marine oil spill will present unique circumstances and challenges The oil type and properties location time of year duration of spill water depth environmental conditions affected biomes potential human community impact and available resources may vary significantly Also each spill may be governed by policy guidelines such as those set forth in the National Response Plan Regional Response Plans or Area Contingency Plans To respond effectively to the specific conditions presented during an oil spill spill responders have used a variety of response options including mechanical recovery of oil using skimmers and booms in situ burning of oil monitored natural attenuation of oil and dispersion of oil by chemical dispersants Because each response method has advantages and disadvantages it is important to understand specific scenarios where a net benefit may be achieved by using a particular tool or combination of tools This report builds on two previous National Research Council reports on dispersant use to provide a current understanding of the state of science and

to inform future marine oil spill response operations The response to the 2010 Deepwater Horizon spill included an unprecedented use of dispersants via both surface application and subsea injection The magnitude of the spill stimulated interest and funding for research on oil spill response and dispersant use in particular This study assesses the effects and efficacy of dispersants as an oil spill response tool and evaluates trade offs associated with dispersant use Review of the Use of Dispersants in Response to the Deepwater Horizon Oil Spill United States. Congress. Senate. Committee on

Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2011 *Oil Spill Remediation*

Ponisseril Somasundaran, Partha Patra, Raymond S. Farinato, Kyriakos Papadopoulos, 2014-04-10 This book provides a comprehensive overview of oil spill remediation from the perspectives of policy makers scientists and engineers generally focusing on colloid chemistry phenomena and solutions involved in oil spills and their cleanup First book to address oil spill remediation from the perspective of physicochemical and colloidal science Discusses current and emerging detergents used in clean ups Includes chapters from leading scientists researchers engineers and policy makers Presents new insights into the possible impact of oil spills on ecosystems as well as preventive measures **Scenarios and Responses to Future**

Deep Oil Spills Steven A. Murawski, Cameron H. Ainsworth, Sherryl Gilbert, David J. Hollander, Claire B. Paris, Michael Schlüter, Dana L. Wetzel, 2019-07-04 It has often been said that generals prepare for the next war by re fighting the last The Deepwater Horizon DWH oil spill was unlike any previous an underwater well blowout 1 500 meters deep Much has been learned in the wake of DWH and these lessons should in turn be applied to both similar oil spill scenarios and those arising from frontier explorations by the marine oil industry The next deep oil well blowout may be at 3 000 meters or even deeper This volume summarizes regional Gulf of Mexico and global megatrends in marine oil exploration and production Research in a number of key areas including the behavior of oil and gas under extreme pressure impacts on biological resources of the deep sea and the fate of oil and gas released in spills is synthesized A number of deep oil spills are simulated with detailed computer models and the likely effects of the spills and potential mitigation measures used to combat them are compared Recommended changes in policies governing marine oil exploration and development are proposed as well as additional research to close critical and emerging knowledge gaps This volume synthesizes state of the art research in deep oil spill behavior and response It is thus relevant for government and industry oil spill responders policy formulators and implementers and academics and students desiring an in depth and balanced overview of key issues and uncertainties surrounding the quest for deep oil and potential impacts on the environment Assessing the Effects of the Gulf of Mexico

Oil Spill on Human Health Institute of Medicine, 2010-09-01 From the origin of the leak to the amount of oil released into the environment to the spill s duration the 2010 Gulf of Mexico oil spill poses unique challenges to human health The risks associated with extensive prolonged use of dispersants with oil fumes and with particulate matter from controlled burns are also uncertain There have been concerns about the extent to which hazards such as physical and chemical exposures and

social and economic disruptions will impact the overall health of people who live and work near the area of the oil spill. Although studies of previous oil spills provide some basis for identifying and mitigating the human health effects of these exposures, the existing data are insufficient to fully understand and predict the overall impact of hazards from the Deepwater Horizon oil spill on the health of workers, volunteers, residents, visitors, and special populations. *Assessing the Effects of the Gulf of Mexico Oil Spill on Human Health* identifies populations at increased risks for adverse health effects and explores effective communication strategies to convey health information to these at-risk populations. The book also discusses the need for appropriate surveillance systems to monitor the spill's potential short and long-term health effects on affected communities and individuals. *Assessing the Effects of the Gulf of Mexico Oil Spill on Human Health* is a useful resource that can help policy makers, public health officials, academics, community advocates, scientists, and members of the public collaborate to create a monitoring and surveillance system that results in actionable information and that identifies emerging health risks in specific populations. *Deluge of Oil: Highlights Research and Technology Needs for Effective Cleanup of Oil Spills*. United States Congress, House, Committee on Science and Technology (2007). Subcommittee on Energy and Environment, 2010.

Oil Spill Response: A Global Perspective Walter F. Davidson, Kenneth Lee, Andrew Cogswell, 2008-06-20. International experts in the field of oil spill response, including representatives from 26 NATO countries, participated in a workshop in Canada to discuss their experience in the development and application of current and emerging technologies for oil spill response in the marine environment. These presentations, which form the basis of chapters in this book, provide a practical viewpoint of methods used to deal with oil spills under the variety of environmental conditions found in the marine environment. In particular, focus is given to the evaluation of oil spill countermeasures for use under arctic conditions in light of anticipated regional increases in marine traffic, e.g., Northwest Passage, and industrial activities, e.g., offshore oil and gas exploration in the future. This book provides a timely international perspective on applied research and development, technology transfer, and lessons learned from field trials and actual case studies associated with recent spill events. Topics include Preparedness, Contingency Planning, Eco-terrorism, Oil Spill Fate and Transport, Environmental Persistence, Remote Sensing, modelling, Biodegradation, Biological Effects, Environmental Effects, Monitoring and Environmental Risk Assessment, and Operational Response, Containment, Recovery, Treating Agents, Shoreline Cleanup, In situ Burning, Emerging Response Strategies. This book provides a synopsis as to the methods currently employed to deal with spills and an insight on future technologies under development.

Impacts of Oil Spill Disasters on Marine Habitats and Fisheries in North America J. Brian Alford, Mark S. Peterson, Christopher C. Green, 2014-10-29. At an increasingly global scale, aquatic scientists are heavily entrenched in understanding the fate of marine ecosystems in the face of human-altered environments. Oil spill disasters, especially large-scale ones like the 2010 Deepwater Horizon tragedy, have left uncertain and indelible marks on marine ecosystems. *Impacts of Oil Spill Disasters on Marine Habitats and Fisheries in North America*

contains independent scientific findings and critical reviews from experts researching the impacts of the Exxon Valdez Ixtoc I and Deepwater Horizon oil spills on coastal fishery resources Comprised of three sections this seminal work Details the physiological effects of oil derived compounds on fishes presenting results from field and laboratory investigations Addresses the science of assessing the impacts of oil spills and oil response measures on coastal habitats with an emphasis on salt marsh ecosystems in the Gulf of Mexico Explores the quantified and potential impacts of oil spills on population and community dynamics of commercial and recreational fishery species Provides newly released results from the 25 year recovery of marine mammals birds and fishes following the Exxon Valdez spill Chapters discuss new techniques for collecting and processing blood samples for toxicity testing new aerial radar techniques for detecting unseen oil on marshes consequences of oil prevention measures such as diverting fresh water to estuaries or building sand berms to stop oil on coastal fishery resources and non traditional methods for assessing the herring stock in Prince William Sound Alaska USA following the Exxon Valdez disaster *Oil Spill Science and Technology* Mervin Fingas,2010-12-03 The National Academy of Sciences estimate that 1 7 to 8 8 million tons of oil are released into world s water every year of which more than 70% is directly related to human activities The effects of these spills are all too apparent dead wildlife oil covered marshlands and contaminated water chief among them This reference will provide scientists engineers and practitioners with the latest methods use for identify and eliminating spills before they occur and develop the best available techniques equipment and materials for dealing with oil spills in every environment Topics covered include spill dynamics and behaviour spill treating agents and cleanup techniques such as in situ burning mechanical containment or recovery chemical and biological methods and physical methods are used to clean up shorelines Also included are the fate and effects of oil spills and means to assess damage Covers spill dynamics and behaviour Definitive guide to spill treating agents Complete coverage of cleanup techniques Includes fate and effects of oil spills and means to assess damage *Summary Report for SubSea and SubSurface Oil and Dispersant Detection: Sampling and Monitoring* ,2010 The purpose of this report is to provide the Federal On Scene Coordinator for the Deepwater Horizon MC252 Spill of National Significance with sufficient information to determine the presense or absence of sub surface oil and dispersants amenable to removal actions under the provisions of the Clean Water Act the Oil Pollution Act of 1990 and the National Oil and Hazardous Substances Pollution Contingency Plan Executive summary **Standard Handbook Oil Spill Environmental Forensics** Scott Stout,Zhendi Wang,2016-02-03 Standard Handbook Oil Spill Environmental Forensics Fingerprinting and Source Identification Second Edition provides users with the latest information on the tools and methods that have become popular over the past ten years The book presents practitioners with the latest environmental forensics techniques and best practices for quickly identifying the sources of spills how to form an effective response and how to determine liability This second edition represents a complete overhaul of the existing chapters and includes 13 new chapters on methods and applications such as emerging application of

PAHi isomers in oil spill forensics development and application of computerized oil spill identification COSI and fingerprinting of oil in biological and passive sampling devices Contains 13 new chapters on methods and applications including emerging application of PAH isomers in oil drill forensics the development and application of computerized oil spill identification COSI and the fingerprinting of oil in biological and passive sampling devices Presents the latest technology and methods in biodegradation of oil hydrocarbons and its implications for source identification surface trajectory modeling of marine oil spills and identification of hydrocarbons in biological samples for source determination Contains new case studies to illustrate key applications methods and techniques Environmental Microbiology Maulin Shah,2022-09-06 This book highlights the importance of various emerging technologies that are used to clean up the environment from pollution caused by human activities It assesses several existing applied and environmental microbiological techniques and introduces new technologies through applied aspects Select topics covered include municipal wastewater treatment environmental microorganisms metal pollutants in the environment and biogeochemical cycling Chukchi Sea Planning Area, Oil and Gas Sale 193 and the Seismic Surveying Activities in the Chukchi Sea ,2007 *Proceedings of the Canadian Society of Civil Engineering Annual Conference 2022* Rishi Gupta,Min Sun,Svetlana Brzev,M. Shahria Alam,Kelvin Tsun Wai Ng,Jianbing Li,Ashraf El Damatty,Clark Lim,2023-09-27 This book comprises the proceedings of the Annual Conference of the Canadian Society of Civil Engineering 2022 The contents of this volume focus on specialty conferences in construction environmental hydrotechnical materials structures transportation engineering etc This volume will prove a valuable resource for those in academia and industry *Incident Specific Preparedness Review (ISPR) Deepwater Horizon Oil Spill: United States Coast Guard Final Report* , Bioremediation and Nanotechnology for Climate Change Mitigation Arafat Abdel Hamed Abdel Latef,Ehab M. Zayed,Ahmad Alsayed Omar,2025-04-30 This book integrates various scientific approaches including bioremediation and nanomaterials to address environmental challenges posed by living organisms It serves as a crucial guide for decision makers providing a scientific foundation for tackling issues within the circular economy paradigm By introducing innovative methods for improving environmental conditions the book facilitates the design of eco friendly cities and revitalizes older urban areas The chapters cover topics such as the current state and future of international environmental relations the impact of population growth on pollution and recent advances in sustainable waste management Readers will discover insights into the relationship between air pollution nanomaterials and bioremediation as well as the role of artificial intelligence as a predictive tool The book also explores key pollution related issues and presents effective remediation strategies Special attention is given to the role of nanotechnology in addressing climate change with chapters highlighting its applications in sustainable agriculture This book is an invaluable resource for professionals researchers and graduate students engaged in advanced environmental science research It reinforces fundamental remediation concepts while introducing the latest updates maximizing readers knowledge of sensor based remediation The book presents a

multidisciplinary approach integrating theoretical perspectives with practical case studies Whether the reader is an academic practitioner or interested layperson this book offers a wealth of information and insights into the future of environmental sustainability *Oil in the Environment* John A. Wiens, 2013-07-18 Scientists directly involved in studying the Exxon Valdez spill provide a comprehensive synthesis of scientific information on long term spill effects

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