



# Using Oil Spill Dispersants On The Sea

**Committee on Effectiveness of Oil Spill  
Dispersants**



## **Using Oil Spill Dispersants On The Sea:**

**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

**Using Oil Spill Dispersants on the Sea** National Research Council Staff, 1989-01-01

**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, 2020-04-24 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 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

*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

**Operational Guidelines on the Use of Oil Spill Dispersants at Sea** Institute of Petroleum (Great Britain),2004-03-01 *Guidelines on the Use of Oil Spill Dispersants* Institute of Petroleum (Great Britain),1986 During the last decade a considerable amount of research and development effort has been put into new methods to reduce oil pollution at sea and particularly on oil spill dispersants and their means of application This has resulted in the formulation of highly efficient dispersant concentrates and compatible aerial spraying systems which have improved the response time to oil spills

**The Feasibility of Oil Spill Dispersant Application in the Southern Beaufort Sea** Philip B. Hildebrand,A. A. Allen,C. W. Ross,Dames & Moore,Canada. Environmental Emergency Branch. Research and Development Division,1977 A review of application techniques of dispersant and physical environments is presented and on the basis of this review three application platforms appear to be worthy of further study a heavy lift helicopter such as the Sikorsky S 64 the Canadair CL 215 and the Lockheed L 100 30 Dispersants were analyzed for their applicability to the Arctic environment and it is recommended that concentrate dispersants be examined further A cost and time analysis of using dispersants in the southern Beaufort Sea is performed Under best case conditions the total cost to disperse 20 000 cubic metre of oil is calculated to be 10 000 000 over an 8 day operational period These costs relate only to dispersant purchase shipping and application and do not include manpower or ancillary support such as shelter food waste disposal and recovery of empty drums Abstract **Oil Spill Dispersants** Eric Ernest Mielbrecht,1999 *Oil Spill Countermeasures for the Southern Beaufort Sea* W. J.

Logan,1975 **Fate of Chemically Dispersed Oil in the Sea** David Robin Green,J. Buckley,Canada. Environmental Protection Service,Canada. Environmental Impact Control Directorate,B. Humphrey,Canada. Environmental Emergency Branch,1982 **The Control of Oil Pollution on the Sea and Inland Waters** J. Wardley-Smith,1976 **IMO/UNEP**

**Guidelines on Oil Spill Dispersant Application and Environmental Considerations** International Maritime Organization,1982 **The Use of Chemicals in Oil Spill Response** Peter Lane,1995 Laboratory work and ecological and operational considerations of using chemical dispersants as responses to oil spills are updated by 11 papers from a symposium in Victoria British Columbia in October 1994 The topics tend to be narrower and deeper than those presented in previous symposia on the Oil Concentrations in Seawater Following Dispersion with and Without the Use of Chemical Dispersants P. Chapman,1985 Review of effect of chemical dispersants on oil dispersion in seawater **Oil Spills, Causes and Cures** ,1998 Oil Spill Cleanup Agent Efficacy, Toxicity and Biodegradation R. S. Tjeerdema,1992 **IMO/UNEP**

**Guidelines on Oil Spill Dispersant Application Including Environmental Considerations** International Maritime Organization, 1995     Oil Spills at Sea ,1992     Guide to Dispersant-use Decision Making for Oil Spills in the Canadian Southern Beaufort Sea ,1986

The first priority when responding to an oil spill is the physical recovery of the oil from the sea. In some circumstances however the chemical dispersal of oil may offer certain environmental advantages in spite of the obvious drawback of driving a noxious substance such as oil into the water column. At present decision makers are faced with a dilemma. On the one hand a dispersant operation must be undertaken as soon as possible after a spill occurs in order to achieve maximum effectiveness. On the other hand the decision to permit the operation can be time consuming due to the large number of environmental and technical factors that must be considered. The present guide has been designed to simplify the decision making process for spills in the Southern Beaufort Sea by analysing in advance as many as possible of the important considerations and presenting the results in a form that will allow decisions to be made quickly. In addition the guide has been reviewed by regulatory agencies so that obtaining their approval in an actual incident will be carried out more easily. In the event of a marine oil spill in the Canadian Southern Beaufort Sea the dispersant decision can be resolved into three questions:

- i Is the spilled oil of a dispersible type
- ii Can an effective dispersant operation be mounted with the available equipment and material
- iii Will the use of dispersants clearly reduce the overall environmental impact of the oil spill

If the answer to all the above questions is yes then the use of dispersants is indicated and the On Scene Commander can proceed with a dispersant countermeasure operation after having obtained regulatory approval. This dispersant guide integrates the effects of these variables into a dispersant decision using a step by step approach. By working through the various steps in the guide one can assemble and document the pieces of information that influence the dispersant use decision. Au ASTIS online database

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