Research Progress on Environmental, Health, and Safety Aspects of Engineered Nanomaterials

Committee to Develop a Research Strategy for Environmental Studies and Toxicology, Board on Chemical Sciences and Technology, National Materials and Manufacturing Board, Division on Earth and Life Studies, Division on Engineering and Physical Sciences, National Research Council

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Despite the increase in funding for research and the rising numbers of peer-reviewed publications over the past decade that address the environmental, health, and safety aspects of engineered nanomaterials (ENMs), uncertainty about the implications of potential exposures of consumers, workers, and ecosystems to these materials persists. Consumers and workers want to know which of these materials they are exposed to and whether the materials can harm them. Industry is concerned about being able to predict with sufficient certainty whether products that it makes and markets will pose any environmental, health or safety issues and what measures should be taken regarding manufacturing practices and worldwide distribution to minimize any potential risk. However, there remains a disconnect between the research that is being carried out and its relevance to and use by decision-makers and regulators to make informed public health and environmental policy and regulatory decisions.

Research Progress on Environmental, Health, and Safety Aspects of Nanomaterials evaluates research progress and updates research priorities and resource estimates on the basis of results of studies and emerging trends in the nanotechnology industry. This report follows up the 2012 report *A Research Strategy for Environmental, Health, and Safety Aspects of Engineered Nanomaterials*, which presented a strategic approach for developing the science and research infrastructure needed to address uncertainties regarding the potential environmental, health, and safety risks posed by ENMs. This new report looks at the state of nanotechnology research, examines market and regulatory conditions and their affect on research priorities, and considers the criteria for evaluating research progress on the environmental, health, and safety aspects of nanotechnology.

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