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A shortlist of green chemicals includes solvents with low or no toxicity, antioxidants, replacements for bleaching agents, biodegradable polymers and plastics, metal sequestrants, and other substitutions. Green chemistry offers the promise of reducing the use of hazardous chemicals in product development. This promise has proved to be more difficult to realize than anticipated, because most products are based on hazardous chemicals. Eighty-eight percent of manufacturing is still based on hazardous chemicals, with over one-third of chemicals being classified as highly hazardous. The remaining products are mostly food and health care, which are exempt from regulation. Lead can enter the environment in many ways. Windborne lead dust is sometimes a source of lead exposure. According to the U.S. EPA, lead is released into the air during normal operations at metal smelters, refineries, and metal fabrication and forging operations, like the manufacture of metal plating baths. On the other hand, the industry may not be responsible for testing or monitoring lead emissions from electrical generation, distribution, or fuel storage and distribution facilities. Many of the most common emissions sources of lead are either outside of the scope of the U.S. EPA's authority, or are regulated as common air pollutants, such as smelter and primary fuel combustion emissions. Thus, coal-fired power plants, for example, are not expected to keep track of, report, or be accountable for lead emitted into the air. Natural disasters always leave devastation in their wake, killing people and destroying property. One of the major impacts of disaster is polluted water and soil. This problem is particularly devastating in developing countries. These countries are heavily dependent on water which is prone to contaminations from inappropriate use. In addition, lack of adequate sanitation, health, housing, transportation, and a lack of food resources often lead to human suffering during and after disasters [ 108, 109 ]. The two major categories of disasters are man-made and natural disasters. It has been estimated that about 50 to 70 percent of disasters are natural, with about 40 percent of these falling into the category of extreme weather events [ 110 ]. Some of the well-known disasters include Mexico's great flood of January 2006, the Iraq War in 2003, Hurricane Katrina, the Eastern portion of Japan's Tohoku Earthquake and Tsunami in 2011, the Chinese Earthquake of 2012, Typhoon Haiyan in the Philippines in 2013, and the Uttarakhand Floods of 2013, to name a few. A major challenge for mitigating disasters is lack of early warning and poor emergency response preparedness.



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Using the Internet to access information can be an effective tool to assist health decision making. Websites like EPA's Airwaves provide information on air quality trends, air toxics, and exposure to hazardous substances. Airwave database provides information on chemicals, including concentrations and potential human health effects, exposure information, and federal, state, local government, and industry information about environmental hazards [ 105 ]. The United States Environmental Protection Agency has also established their Air Quality System [ 106 ]. The Air Quality System database provides comprehensive, relevant, up-to-date information about air quality conditions and trends across the nation. Data in this system cover the air quality conditions at national, regional, local, and state levels. The EPA has recognized air toxics as a significant threat to human health [ 107 ]. A major benefit of green design is that the time between hazard and hazard reduction in the use of a product is dramatically reduced. Most hazardous chemicals are life-threatening, and the use of the product may be as long as hundreds of years before they are no longer used and can be removed by the site or disposed of in an environmentally sound manner. A significant challenge for green product design is the use of new or more hazardous materials. This may require new technologies or substantial reformulation. The major health effects of metals including the effects of the toxic heavy metals and non-heavy metals include renal dysfunction, liver impairment, induction of

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oxidative stress and inflammation, neurodegenerative diseases, and cancer [ 105-111]. Human exposures to toxic heavy metals have important implications for the health of human beings. In general, human exposure to heavy metals is a major health concern which causes respiratory, cardiovascular, kidney, and brain diseases and has been associated with risk of various cancers such as lung cancer, chronic obstructive pulmonary disease, Parkinson's disease, Alzheimer's disease, and oral cancer [ 112-116]. Recent studies have shown that some toxic heavy metals such as lead are associated with neurodegenerative diseases [ 117, 118 ] and that many environmental agents have been considered as possible risk factors for Alzheimer's disease (AD).

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