

Evaluating Best Practices in Green Supply Chain

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ABSTRACT

With the rising need of improved environmental performance, it is important that companies implement green supply chain. Many electronic documents containing information about green supply chain are available in various sources such as journals, technical, and online news reports. We studied the green supply chain practices of companies namely Hewlett Packard, Walmart, Johnson & Johnson, and Nike and compared them with the environment standards set by the U.S. Environmental Protection Agency. The information on green supply chain from electronic documents is extracted semi-automatically using an experimental system that we built. Collocation analysis is used for analyzing the organization and relationship of words in a large text to evaluate the importance of the green supply chain terms that appear in the files of the four companies with those of the standards. We calculate t-scores to find relationship between terms (e.g., chemical and hazard, environment and health, and ISO and 14000).

Keywords

Green supply chain, green chemistry, environment, environmental standards, collocation, t-score, ISO 14000