

MILLENNIUM CHEMICALS INC  
Form 425  
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Filed by Lyondell Chemical Company

Pursuant to Rule 425 under the Securities Act of 1933 and

Deemed Filed Pursuant to Rule 14a-6 under the Securities Exchange Act of 1934

Form S-4 Registration Statement File No.: 333-114877

Subject Company: Millennium Chemicals Inc.

**Additional Information:**

On October 15, 2004, Lyondell Chemical Company ( Lyondell ) filed with the Securities and Exchange Commission (the SEC ) the definitive joint proxy statement/prospectus regarding the proposed transaction between Lyondell and Millennium Chemicals Inc. ( Millennium ). **Investors and security holders are urged to read that document and any other relevant documents filed or that will be filed with the SEC as they become available, because they contain, or will contain, important information.** Investors and security holders may obtain a free copy of the definitive joint proxy statement/prospectus and other documents filed by Lyondell and Millennium with the SEC at the SEC 's web site at [www.sec.gov](http://www.sec.gov). The definitive joint proxy statement/prospectus and the other documents filed by Lyondell may also be obtained free from Lyondell by calling Lyondell 's Investor Relations department at (713) 309-4590.

**Forward-Looking Statements:**

This release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Such statements include, but are not limited to, statements about the benefits of the proposed transaction between Lyondell and Millennium, including financial and operating results, Lyondell 's plans, objectives, expectations and intentions and other statements that are not historical facts. Such statements are based upon the current beliefs and expectations of Lyondell 's management and are subject to significant risks and uncertainties. Actual results may differ materially from those set forth in the forward-looking statements. The following factors, among others, could affect the proposed transaction and the anticipated results: approval by Lyondell 's and Millennium 's respective shareholders and the parties ' ability to achieve expected synergies in the transaction within the expected timeframes or at all. Additional factors that could cause Lyondell 's results to differ materially from those described in the forward-looking statements can be found in Lyondell 's Annual Report on Form 10-K for the year ended December 31, 2003, which was filed with the SEC on March 12, 2004, and Lyondell 's Quarterly Report on Form 10-Q for the quarter ended September 30, 2004, which was filed with the SEC on November 8, 2004.

This filing contains slides used by Lyondell in presentations during analyst conferences on November 10-12, 2004. This information is being filed pursuant to Rule 425 under the Securities Act of 1933.

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