
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of Earliest Event Reported):

August 21, 2009

Air Products and Chemicals, Inc.

(Exact name of registrant as specified in its charter)

Delaware

1-4534

23-1274455

(State or other jurisdiction
of incorporation)

(Commission
File Number)

(I.R.S. Employer
Identification No.)

7201 Hamilton Boulevard, Allentown, Pennsylvania

18195-1501

(Address of principal executive offices)

(Zip Code)

Registrant's telephone number, including area code:

610 481-4911

Not Applicable

Former name or former address, if changed since last report

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
 - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
 - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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Item 7.01 Regulation FD Disclosure.

On August 21, 2009, the Company published the Quarter-to-Date Sales Update, including consolidated sales and product volumes for July 2009 on its website at <http://www.airproducts.com/Invest/financialnews/current.htm>. A copy is attached as Exhibit 99.1 to this Form 8-K. The Quarter-to-Date Sales Update is being furnished and shall not be deemed to be filed.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

99.1 Quarter-to-Date Sales Update dated August 21, 2009

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Air Products and Chemicals, Inc.

August 21, 2009

By: *Paul E. Huck*

Name: Paul E. Huck

Title: Senior Vice President and Chief Financial Officer

Exhibit Index

<u>Exhibit No.</u>	<u>Description</u>
99.1	Quarter-to-Date Sales Update dated August 21, 2009

Quarter-to-Date
Sales Update

August 21, 2009

<u>(% change versus PY)</u>	<u>July 2009</u>	<u>Commentary</u>
Consolidated Sales	(27%)	Lower contractual pass through of energy and raw materials costs reduced sales by 15%. Unfavorable currency reduced sales by an additional 5%. Underlying sales declined 7% due to weak demand across most end markets.
Merchant Gases	(17%)	Unfavorable currency reduced sales by 9%. Underlying sales declined 8% on lower volumes in all regions and across most end markets.
Tonnage Gases	(43%)	Lower contractual pass through of energy and raw materials costs reduced sales by 39%. Unfavorable currency reduced sales by an additional 4%. Volume growth in refinery hydrogen was offset by weakness in chemicals and steel.
Electronics and Performance Materials	(28%)	Difficult comparisons continue in Electronics with sales down due to lower industry utilization and capital spending. Performance Materials sales declined reflecting weakness across all regions. Unfavorable currency reduced sales by 3%. Sequentially, both businesses continued to show signs of recovery with increasing volumes.

Note: We are providing this information at the request of financial analysts and investors who have indicated that it would assist them in understanding recent business trends at Air Products. This information is based on current estimates and data that we believe in our judgment to be reliable. Please keep in mind that sales are not the only factors that determine future financial performance. Many other factors including raw material, energy, distribution and overhead costs and other price changes also influence results.