

- 562,656 SHARES
9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
16,083,285 SHARES
10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN
SHARES*
NOT APPLICABLE
11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
7.01 %
12. TYPE OF REPORTING PERSON*
BK

SCHEDULE 13G

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- ITEM 1.
(A) NAME OF ISSUER
AIR PRODUCTS AND CHEMICALS, INC.
(B) ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES
7201 HAMILTON BLVD.
ALLENTOWN PA 18195-1501

- ITEM 2.
(A) NAME OF PERSON FILING
STATE STREET BANK AND TRUST COMPANY, TRUSTEE
(B) ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE,
RESIDENCE
225 FRANKLIN STREET, BOSTON, MA 02110
(C) CITIZENSHIP
BOSTON, MASSACHUSETTS
(D) TITLE CLASS OF SECURITIES
COMMON
(E) CUSIP NUMBER
009158106

- ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13D-1(B), OR
13D-2(B), CHECK WHETHER THE PERSON FILING IS A:

- (B) BANK AS DEFINED IN SECTION 3(A)(6) OF THE ACT

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- ITEM 4. OWNERSHIP
(A) AMOUNT BENEFICIALLY OWNED
16,083,285 SHARES
(B) PERCENT OF CLASS
7.01%
(C) NUMBER OF SHARES AS TO WHICH SUCH PERSON HAS:
(I) SOLE POWER TO VOTE OR TO DIRECT THE VOTE
3,908,873 SHARES
(II) SHARED POWER TO VOTE OR TO DIRECT THE VOTE
11,838,003 SHARES
(III) SOLE POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF
15,520,629 SHARES
(IV) SHARED POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF
562,656 SHARES

- ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS
NOT APPLICABLE

- ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER
PERSON.
NOT APPLICABLE

- ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH
ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT
HOLDING COMPANY
NOT APPLICABLE

- ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

NOT APPLICABLE

ITEM 9. NOTICE OF DISSOLUTION OF GROUP

NOT APPLICABLE

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ITEM 10. CERTIFICATION

THE FOLLOWING CERTIFICATION SHALL BE INCLUDED IF THE STATEMENT IS FILED PURSUANT TO RULE 13D-1(B):

BY SIGNING BELOW I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE SECURITIES REFERRED TO ABOVE WERE ACQUIRED IN THE ORDINARY COURSE OF BUSINESS AND WERE NOT ACQUIRED FOR THE PURPOSE OF AND DO NOT HAVE THE EFFECT OF CHANGING OR INFLUENCING THE CONTROL OF THE ISSUER OF SUCH SECURITIES AND WERE NOT ACQUIRED IN CONNECTION WITH OR AS A PARTICIPANT IN ANY TRANSACTION HAVING SUCH PURPOSES OR EFFECT.

THIS REPORT IS NOT AN ADMISSION THAT STATE STREET BANK AND TRUST COMPANY IS THE BENEFICIAL OWNER OF ANY SECURITIES COVERED BY THIS REPORT, AND STATE STREET BANK AND TRUST COMPANY EXPRESSLY DISCLAIMS BENEFICIAL OWNERSHIP OF ALL SHARES REPORTED HEREIN PURSUANT TO RULE 13D-4.

SIGNATURE

AFTER REASONABLE INQUIRY AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, I CERTIFY THAT THE INFORMATION SET FORTH IN THIS STATEMENT IS TRUE, COMPLETE AND CORRECT.

7 FEBRUARY 2000

STATE STREET BOSTON CORPORATION
STATE STREET BANK AND TRUST COMPANY,
TRUSTEE

/s/ JUDITH A. DORIAN
VICE PRESIDENT