



U.S. Department  
of Transportation  
**Research and  
Special Programs  
Administration**

400 Seventh St., S.W.  
Washington, D.C. 20590

**NOV 6 2003**

DOT-E 11798  
(SIXTH REVISION)

EXPIRATION DATE: October 31, 2005

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Air Products & Chemicals, Inc.  
Allentown, PA  
  
(See Appendix A for additional list of grantees)
2. PURPOSE AND LIMITATION:
  - a. This exemption authorizes a 10-year retest interval for Specification DOT 3A and 3AA cylinders used for the transportation in commerce of certain Division 2.1 and Division 2.2 gases. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
  - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 180.209(b)(1)(ii) in that additional materials are authorized.
5. BASIS: This exemption is based on the application of Air Products and Chemicals dated October 6, 2003, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Compressed gas, flammable, n.o.s. (Containing only mixtures of silane with argon, hydrogen, nitrogen or helium)	2.1	UN1954	N/A
Compressed gas, n.o.s. (Containing only mixtures of silane with argon, hydrogen, nitrogen or helium)	2.2	UN1956	N/A
Compressed gas, n.o.s. (Containing only mixtures of nitrogen trifluoride with argon, nitrogen or helium)	2.2	UN1956	N/A
Nitrogen Trifluoride	2.2	UN2451	N/A
Silane	2.1	UN2203	N/A

7. SAFETY CONTROL MEASURES:

- a. PACKAGING - Packagings prescribed are DOT Specification 3A or 3AA cylinders, not exceeding 125 pounds water capacity which meet all the requirements specified in § 180.209(b) except that they may contain the commodities listed in paragraph 6 above.
- b. TESTING - Cylinders may be retested and reinspected every ten (10) years in accordance with the applicable requirements of § 180.209(b).
- c. OPERATIONAL CONTROLS - The moisture limit for the transportation of silane and nitrogen trifluoride is 25 ppm.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modification or change is made to the package or its contents and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

c. MARKING - Each cylinder covered by this exemption must be plainly and durably marked "DOT-E 11798" in proximity to existing DOT markings.

d. This exemption provides no relief from the quantity limitations in column 9A and 9B of the § 172.101, Hazardous Materials Table.

e. Transportation of Division 2.1 (flammable gases) is not authorized aboard cargo vessel or aircraft unless specifically authorized in the Hazardous Materials Table (§ 172.101).

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, cargo aircraft only.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.

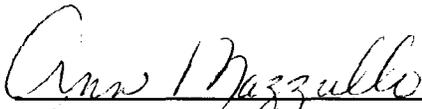
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:



*for* Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

NOV 6 2003  
(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590. Attention: DHM-31.

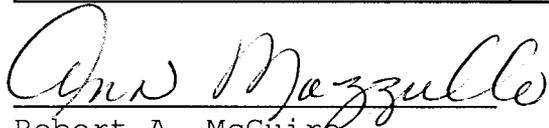
Copies of this exemption may be obtained by accessing the Hazardous Materials Safety Homepage at <http://hazmat.dot.gov/exemptions> Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: ss/sdc

**DEC 4 2003**

The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Air Liquide America Corporation Houston, TX	Nov 24, 2003	<b>DEC 4 2003</b>	Oct 31, 2005 ✓
Anderson Development Company Adrian, MI	Nov 24, 2003	<b>DEC 4 2003</b>	Oct 31, 2005 ✓
Praxair, Inc. Danbury, CT	Nov 24, 2003	<b>DEC 4 2003</b>	Oct 31, 2005



Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety