



U.S. Department
of Transportation

East Building, PHH-30
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP 14298
(THIRD REVISION)

EXPIRATION DATE: May 31, 2012

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Air Products and Chemicals, Inc.
Allentown, PA
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of certain Division 2.2 materials in DOT Specification 3AX, 3AAX and 3T cylinders having a water capacity over 125 lbs that are requalified every ten years rather than every five years. The cylinders must be mounted in an ISO frame or on a trailer frame. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce.
 - c. No party status will be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 180.209(a) and part of § 180.209(b), in that cylinders with water capacity over 125 lbs may be requalified every ten years and they are not required to be removed from bundles and hammer tested prior to each refill; and § 180.209(b)(1)(iv) in that ultrasonic examination is authorized in lieu of hydrostatic testing and visual inspection.

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5. BASIS: This special permit is based on the application of Air Products and Chemicals, Inc. dated April 7, 2008, additional information dated June 17, 2008, submitted in accordance with § 107.105 and the public proceeding thereon.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Argon, compressed	2.2	UN1006	N/A
Helium, compressed	2.2	UN1046	N/A
Hexafluoroethane, compressed or Refrigerant gas R 116	2.2	UN2193	N/A
Neon, compressed	2.2	UN1065	N/A
Nitrogen trifluoride, compressed	2.2	UN2451	N/A
Nitrogen, compressed	2.2	UN1066	N/A
Nitrous oxide	2.2	UN1070	N/A
Sulfur hexafluoride	2.2	UN1080	N/A
Tetrafluoromethane, compressed or Refrigerant gas R 14	2.2	UN1982	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packagings prescribed are DOT 3AX, 3AAX or 3T cylinders mounted in an ISO frame that meets the requirements of ISO 1496, or mounted on a trailer frame (tube trailers), that are subjected to periodic requalification and marking specified in §§ 180.205, 180.209, and 180.213 except that:

- (1) Each cylinder in the ISO frame, or on the tube trailer, may be requalified every 10 years in accordance with § 180.205 using either the hydrostatic testing and visual inspection described in § 180.205 or

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by acoustic emission and ultrasonic examination (AE/UE) in accordance with existing DOT special permits applicable to these DOT Specifications. The 10 year requalification period applies only to cylinders that meet all requirements specified in § 180.209(b) except that the cylinders may have a water capacity over 125 lbs and they are not hammer tested.

(2) Every five years, each cylinder must be subject to external visual inspection in accordance with CGA pamphlet C-6. Air Products and Chemicals, Inc. (APCI) must record the results of the visual inspection for each cylinder or tube and submit the report to the Office of Hazardous Materials Special Permits and Approvals (OHMSPA) upon request.

b. OPERATIONAL CONTROLS -

(1) Before being used under the terms of this special permit, each DOT 3T cylinder (tube) must be subjected to shear wave ultrasonic examination (UE). The UE must be performed by an authorized DOT UE special permit holder or the tube manufacturer. Maximum acceptance defect (sidewall crack) for a tube that is tested by UE shear wave is 5% of the minimum design wall thickness of the tube.

(2) This special permit is limited to the DOT cylinders described in paragraph 7.a. above that are mounted in an ISO frame or on a tube trailer.

(3) Maximum cycling (fillings) of each cylinder (tube) in a 10 year period must be less than or equal to 300. APCI must record all fillings of each cylinder and submit the report to the OHMSPA upon request.

(4) All gases must have a dew point at or below minus 52°F at one atmosphere.

8. SPECIAL PROVISIONS:

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

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

c. MARKING:

(1) An exterior tube on each side of the ISO frame or the tube trailer must be marked "DOT-SP 14298" with letters and numbers at least 2 inches high on a contrasting background.

(2) The current retest date must be marked on the rear or side of the ISO frame or the tube trailer at approximately eye level. In the event retest dates of cylinders differ in an ISO frame or tube trailer, the oldest retest date (meaning the date of the retest that must occur first) will be displayed.

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

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel or motor vehicle used to transport packages covered by this special permit.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit 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 special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- 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 special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

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

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)- "The Hazardous Materials Safety and Security Reauthorization Act of 2005" (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "exemption" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Theodore L. Willke
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at

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http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm

Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: RShafkey/kah