

March 2, 2006



U.S. Department
of Transportation

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

**Pipeline and
Hazardous Materials
Safety Administration**

DOT-SP 10320
(SIXTH REVISION)

EXPIRATION DATE: January 31, 2010

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Worthington Cylinder Corporation
Columbus, OH
2. PURPOSE AND LIMITATIONS:
 - a. This special permit authorizes the manufacture, mark, sale and use of a non-DOT specification cylinder conforming with all regulations applicable to a DOT Specification 4BW cylinder, except as specified herein, for the transportation in commerce of the materials authorized by this special permit. The packaging as specified in the special permit is comparable to DOT Specification 8AL except for the steel shell. 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.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.303(a) in that non-DOT specification cylinders are not authorized, except as specified herein.
5. BASIS: This special permit is based on the application of Worthington Cylinder Corporation, dated December 15, 2005, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Material Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Acetylene, dissolved	2.1	UN1001	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packagings are non-DOT specification cylinders which comply with DOT Specification 4BW (§ 178.61) except as set forth in paragraphs 7(a)(1), 7(a)(2), 7(a)(3), and 7(a)(4) below. When completed and filled with porous material as specified herein, these cylinders are comparable to DOT Specification 8AL cylinders for acetylene.

(1) Each cylinder must comply with §§ 178.35, 178.60(p), 178.60(q), and 178.60(s) (except as amended by paragraph 7(b) below). Cylinders must have a service pressure of 250 psig. Test pressure must be at least three times the service pressure and the minimum burst pressure must be six times the service pressure.

(2) In § 178.61(f)(1), the formula used to calculate wall stress must be replaced by the following formula (see also Exhibit 4 of the January 5, 1990 application on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA)):

$$S = 3P(1.3D^2 + 0.4d^2) / [E(D^2 - d^2)]$$

(3) Cylinders may be no larger than 12 inches inside diameter and 42 inches overall height. The volume may not exceed 4200 cubic inches. Cylinders must be in accordance with the Worthington Cylinders of Canada drawings on file with OHMSPA.

(4) The minimum wall thickness for a cylinder must not be less than the thickness determined by the formula prescribed in Paragraph 7(a)(2) of this special permit and in no case less than 0.100 inches.

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b. TESTING - Each owner of the cylinder used to transport acetylene must have the cylinder shell and the porous filler requalified in accordance with § 180.205.

c. OPERATIONAL CONTROLS - Each cylinder must be marked in accordance with § 178.35(f) except that "DOT-SP 10320" must be substituted for the DOT Specification.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this special permit for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this special permit.

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

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

d. Each packaging manufactured under the authority of this special permit must be marked with a registration symbol designated by the Office of Hazardous Materials Exemptions and Approvals for a specific manufacturing facility.

e. A current copy of this special permit must be maintained at each facility where the package is manufactured under this special permit. It must be made available to a DOT representative upon request.

f. Transportation of Division 2.1 (flammable gas) is not authorized aboard cargo vessels unless specifically authorized in the Hazardous Materials Table (§ 172.101).

g. Packagings permanently marked 'DOT-E 10320', prior to October 1, 2007, may continue to be used under this special permit for the remaining service life of the packaging or until the special permit is no longer valid. Packagings marked on or after October 1, 2007, must be marked 'DOT-SP 10320'.

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- h. Shipping papers displaying 'DOT-E 10320' may continue to be used until October 1, 2007, provided the special permit remains valid.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel 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, 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.

No person may use or apply this special permit, including display of its number, when the 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.

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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 -- OHMSPA, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Robert A. McGuire
Associate Administrator
for Hazardous Materials Safety

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

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