



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

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

MAR 6 2003

DOT-E 9884
(TENTH REVISION)

EXPIRATION DATE: February 28, 2005

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Puritan Bennett Corporation
Plainfield, IN
2. PURPOSE AND LIMITATION:
 - a. This exemption authorizes the manufacture, mark, sale and use of a non-DOT specification cylinder conforming with DOT Specification 4L except as specified herein, for the transportation in commerce of the Division 2.2 material identified in paragraph 6 below, subject to the limitations and special requirements specified herein. 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. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of another device, or other uses not associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.316 in that a non-DOT specification cylinder is not authorized, except as specified herein.

5. BASIS: This exemption is based on the application of Puritan Bennett Corporation dated January 30, 2003, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/Division	Identification Number	Packing Group
Oxygen, refrigerated liquid (<i>cryogenic liquid</i>)	2.2	UN1073	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging is a non-DOT specification insulated cylinder in conformance with the drawings and specification on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA) for Puritan Bennett Corporation's models Companion C-1000, Companion T, C-500, C-550, MARK 4 WALKER, MARK 5 WALKER, MARK 6 WALKER, MARK 7 WALKER, MARK T WALKER, EMT PORTABLE, C-10 or H-300 liquid oxygen transport system. Additionally, the insulated cylinder conforms with the DOT 4L Specification (§§ 178.35 and 178.57) except as follows:

§ 178.57 (a) Type, size, service pressure and design service temperature.

- (1) Type and size. Must be fusion welded. Water capacity must not exceed 4 pounds. However, the water capacity for the model C-10 must not exceed 25 pounds.
- (2) Service pressure. May not be more than 100 psig.
- (3) Design service temperature. Must be -320°F or colder.

§ 178.57(d) Manufacture.

(2) * * * add The heads for the model H-300 liquid oxygen transport system cylinder are Torispherical.

(3) * * * except sixth sentence is deleted and the fifth sentence is replaced with the following:

"The construction must be such that the total heat transfer, from the atmosphere at ambient temperature to the cylinder lading may not exceed 0.015 Btu per hour per °F temperature differential per pound of water capacity of the cylinder (models Companion C-1000, Companion T, C-500, C-550, and MARK 4 WALKER, MARK 5 WALKER, MARK 6 WALKER, MARK 7 WALKER, MARK T WALKER, EMT PORTABLE) or 0.200 Btu per hour per °F temperature differential per pound of water capacity of the cylinder (model H-300), but not to exceed 2.0 pounds of evaporated liquid oxygen per day except for the model C-1000 which may not exceed 2.2 pounds of evaporated liquid oxygen per day".

§ 178.57(h) Openings in Cylinder.

(1) * * * except a 3/16" diameter tube is authorized to be fusion welded or brazed directly to each head on model H-300 cylinders. Brazing must be in accordance with Puritan Bennett procedure: Manual Brazing SPI 294 on file with the OHMEA.

§ 178.57 (p) Marking.

Applies except that each oxygen transport system must be marked "DOT-E 9884" in letters 0.25 inches high on a contrasting background.

8. SPECIAL PROVISIONS:

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

b. A person who is not a holder of this exemption, but 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 offered for transportation in conformance with this exemption and the HMR.

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

d. Each packaging manufactured under the authority of this exemption must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) 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 exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle.

10. MODAL REQUIREMENTS:

a. A current copy of this exemption must be carried aboard each motor vehicle used to transport packages covered by this exemption.

b. Drivers must have been instructed as to necessary safeguards and proper procedures in the event of unusual delay fire or accident.

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:

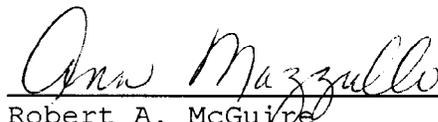
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

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 also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued in Washington, D.C.



Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

MAR 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: CWFreeman/alb