



U.S. Department
of Transportation

**Research and
Special Programs
Administration**

NOV 17 2000

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

DOT-E 12506

EXPIRATION DATE: October 31, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: The Boeing Company
Huntington Beach, CA
2. PURPOSE AND LIMITATIONS:
 - a. This exemption authorizes the transportation in commerce of fifteen (15) non-DOT specification cylinders conforming with all regulations applicable to a DOT Specification 4DS cylinder, except as specified herein, for the transportation in commerce of bromotrifluoromethane under the terms and conditions 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 use as a component of a transport vehicle or other 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 § 173.34(d) in that pressure relief devices are not required; and § 173.304 that non-DOT specification cylinders are not authorized, except as specified herein.

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5. BASIS: This exemption is based on the application of The Boeing Company dated July 5, 2000 and the supplemental information dated July 14 and October 25, 2000, submitted in accordance with § 107.105 and the public proceeding thereon.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Material Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Bromotrifluoromethane, or Refrigerant gas, R 13B1	2.2	UN1009	NA

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a non-DOT specification cylinder used exclusively as part of the NASA Space Shuttle fire extinguisher system. The cylinders are constructed in accordance with Brunswick Corporation Defense Division Specification ST-20425 and Hydraulic Research APCO/Filter Division Drawings 819200, 819201, and 819215 on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA). The cylinders must be in conformance with DOT Specification 4DS cylinders (§§ 178.35 and 178.47) except as follows:

(1) § 178.35(e) *Safety devices*. Cylinders are not fitted with pressure relief devices.

(2) § 178.47(a) *Type, Size and Service Pressure*. Circumferentially welded shells, drawn from 321 stainless steel plate, with a water capacity of not over 3.39 pounds (94 cubic inches) and maximum service pressure of 210 pounds per square inch gauge at 70°F are authorized.

(3) § 178.47(f) *Wall Thickness*. The minimum wall thickness must be 0.032 inch.

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(4) § 178.47(n) *Acceptable results for flattening and burst tests.*

(1) ***

(2) The minimum burst pressure must be 840 psig, 4.0 times the service pressure of the cylinder.

b. TESTING - Each cylinder must be retested and reinspected at least once every five years in accordance with the requirements prescribed for DOT-4DS cylinders in § 173.34(e). Evidence of leakage or bulging through the circumferential weld seam shall be reason for cylinder rejection.

c. OPERATIONAL CONTROLS -

(1) Individual charged cylinders must be shipped in strong outside packaging in accordance with the requirements contained in § 173.301(k), and as described in the application on file with OHMEA.

(2) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the cylinders are not fitted with pressure relief devices and provide appropriate guidance for exposure to fire.

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 modifications or changes are made to the package 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.

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d. Marking -

(1) Each cylinder must be plainly and durably marked "DOT-E 12506/210" where 210 represents the service pressure.

(2) As specified in § 172.301(c), each outside packaging must be marked "DOT-E 12506".

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each motor vehicle used to transport packages covered by this exemption.
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.:



Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

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(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.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, S.W., Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

PO: ss