



U.S. Department
of Transportation

Research and
Special Programs
Administration

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

JUN 17 2004

DOT-E 5967
(ELEVENTH REVISION)

EXPIRATION DATE: May 31, 2006

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: General Dynamics OTS (Aerospace) Inc.
Redmond, WA
(Former grantee: Primex Aerospace Company)
2. PURPOSE AND LIMITATION:
 - a. This exemption authorizes the transportation in commerce of certain non-DOT specification cylinders conforming in part with DOT 3HT for shipment of a Division 2.2 gas. 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 § 172.101 in that an alternate proper shipping name is authorized; and §§ 173.304(a)(2) and 175.3, except as specified herein.
5. BASIS: This exemption is based on the application of General Dynamics OTS (Aerospace Company dated March 18, 2004, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Chlorodifluoromethane	2.2	UN1018	n/a

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging (cool gas generator) is a non-DOT specification steel pressure vessel not exceeding 635 cubic inches internal volume and a solid propellant cartridge (including the type approved for transportation under BA 610). The gas generator assemblies authorized are identified by the following part numbers: 25705 through 25709, 25805 through 25809, 26161, and 26201. The pressure vessel and all component parts must be as described in specifications and drawings on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA). In addition, the pressure vessel must comply with DOT Specification 3HT (§§ 178.35 and 178.44) except as follows:

§ 178.35(g) *Inspector's report*

Applies except that it must be appropriately modified to reflect identification and compliance with this exemption.

§ 178.44(a) *Type, size and service pressure*

Pressure vessel may be welded but the internal volume may not exceed 635 cubic inches with maximum service pressure of 1,300 psi.

§ 178.44(b) *Authorized steel*

Steel designated 4330V is authorized.

§ 178.44(e) *Welding or brazing*

Welding is authorized. Maximum weld efficiency authorized is 90 percent.

§ 178.44(h) *Openings in cylinders and connections*

Applies except straight threads having at least 4 engaged threads (nominal) are authorized in the side wall openings.

§ 178.44(l) *Flattening test*

Flattening tests are waived based on data filed with the OHMEA.

§ 178.44(p) *Acceptable results of tests*

(1) Does not apply.

(2) * * *

(i) * * *

(ii) Tensile strength may not exceed 200,000 psi.

(3) and (4) * * *

§ 178.44-23(r) *Marking*

Applicable except each pressure vessel must be marked with the exemption number "DOT-E 5967" instead of "DOT-3HT".

b. TESTING - Each pressure vessel must be retested and requalified in accordance with §§ 180.205 and 180.209 and service life limited to 18 years from the date of the original test.

c. OPERATIONAL CONTROLS - The safety relief device must limit the pressure in the cylinder to not exceed 600 psig during transportation.

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 modifications or changes are made to the package 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. Generators must be packaged in compliance with § 173.301(k).

d. Cool gas generators made after October 31, 1983 must comply with the specifications described in the June 27,

1983 application.

e. Packages specified herein marked "DOT-SP 5967" and manufactured in accordance with the provisions of the special permit in effect at the time of manufacture, may be transported under the terms of this exemption.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo aircraft only, and passenger-carrying aircraft.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each 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 Persons operating under the terms of this exemption 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 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.:



R Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

JUN 17 2004

(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.
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