

FEB 27 2004



U.S. Department
of Transportation

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

**Research and
Special Programs
Administration**

DOT-E 12056
(EIGHTH REVISION)

EXPIRATION DATE: August 31, 2005

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Department of Defense
Fort Eustis, VA
2. PURPOSE AND LIMITATION:
 - a. This exemption authorizes the transportation in commerce of certain non-DOT specification propellant tanks designed to a military specification, overpacked in a UN 1A2 stainless steel drum, containing Division 6.1 liquid or Division 2.3 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 §§ 173.227 and 173.336 in that non-DOT specification packaging is not authorized, except as specified herein.
5. BASIS: This exemption is based on the application of the Department of Defense dated September 24, 2003 submitted in accordance with § 107.109 and an additional letter dated January 6, 2004.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Dinitrogen tetroxide, liquefied	2.3	UN1067	N/A
Toxic liquids, corrosive, organic, n.o.s., inhalation hazard, Packing Group I, Zone B*	6.1	UN2927	I, Zone B

*NOTE: Flammable liquid subsidiary risk label required.

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging is a non-DOT specification aluminum propellant tank without a pressure relief device, overpacked in a UN 1A2 stainless steel drum. The tank is designed in conformance with Military Specification MIL-STD-1522 for pressure vessels with a minimum burst pressure of 150% of the maximum operating pressure.

(1) The propellant tank consists of an outer shell of composite construction, an inlet tube, a positive displacement expulsion liner made of aluminum, and a burst disc assembly and a titanium fill valve. The tank diameter is 7.3 inches maximum and the length is 17.5 inches. The maximum volume of a propellant tank is 8.0 liters.

(2) Each propellant tank is held in a shock-dampening frame which is packaged in a DOT Specification 1A2 steel drum. The drum has a mechanical recorder and visual indicators for shock protection.

(3) The packagings described under this exemption are authorized for reuse. Before reuse, each package must be inspected and found to be free of damage, defects or leaks or evidence of a reduction in integrity, and in conformance with the original design specification and this exemption.

FEB 27 2004

(4) DOD must report to the Office of Hazardous Materials Exemptions and Approvals (OHMEA) any packaging that does not successfully meet the reuse criteria outlined in paragraph 7.a.(3) above. This report must be received within 60 days of the noted inspection failure and include a summary of the failure.

b. OPERATIONAL CONTROLS -

(1) The propellant tank may not be pressurized during transportation.

(2) The propellant tank may only be transported in temperature controlled motor vehicles and freight containers.

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

8. SPECIAL PROVISIONS:

a. The transportation of the material authorized under this exemption is limited to U.S. government purposes by the Department of Defense (DOD) and persons conducting operations under the direction of DOD officials and their designees.

b. DOD must submit an annual transportation summary of the shipping activity conducted under this exemption to OHMEA. The annual summary must include all shipment origins and destinations and number of hazardous material shipments per material and per destination.

c. MARKING - The outside of each UN 1A2 steel drum must be plainly and durably marked "DOT-E 12056" as specified in § 172.301(c).

d. This exemption serves as a Competent Authority Approval (CA-2003090016) issued by the Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, of the United States Department of Transportation, in accordance with Section 4.1.3.7 and Chapter 7.9 of the International Maritime Dangerous Goods Code (IMDGC).

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

10. MODAL REQUIREMENTS:

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

b. For highway transportation, the two propellants authorized by this exemption may not be transported on the same motor vehicle simultaneously. The maximum quantity of any propellant on a motor vehicle may not exceed 24 liters (3 tanks).

c. The cargo vessels used to transport the materials authorized by this exemption must be operated by Matson Navigation Company, Lynden Transport, and TOTE Transport, Port of Oakland, California.

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 the 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.:



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Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

FEB 27 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.

PO: PTO/RP/AM