U.S. Department
of Transportation

**Research and
Special Programs
Administration**

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

DOT-E 4242 (EXTENSION)
FIRST REVISION April 13, 1979

In accordance with 49 CFR 107.105 of the Department of Transportation (DOT) Hazardous Materials Regulations DOT-E 4242 is hereby extended for the party(ies) listed below by changing the expiration date in paragraph 10 to August 31, 1997. This change is effective from the issue date of this extension. All other terms of the exemption remain unchanged.

This extension applies only to party(ies) listed below based on the application(s) received in accordance with 49 CFR 107.105. This extension constitutes a necessary part of this exemption and must be attached to it.

SEP 28 1995
(DATE)

Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

Dist: FHWA

EXEMPTION HOLDER	APPLICATION DATE
U.S. Department of Defense Falls Church, VA	August 18, 1995

DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION
WASHINGTON, D.C. 20590

DOT-E 4242
(FIRST REVISION)

1. U. S. Department of Defense, Washington, D.C., is hereby granted an exemption from those provisions of this Department's Hazardous Materials Regulations specified in paragraph 5 below to offer packages prescribed herein of a certain pyroforic mixture for transportation in commerce subject to the limitations and special requirements specified herein. This exemption authorizes the use of a non-DOT pressure vessel, and provides no relief from any regulation other than as specifically stated.

2. BASIS. This exemption is based on the U. S. Department of Defense's application dated November 17, 1978, submitted in accordance with 49 CFR 107.105 and the public proceeding thereon.

3. HAZARDOUS MATERIALS (Descriptor and class). A mixture consisting of 80 percent trimethyl aluminum and 20 percent triethyl aluminum, classed as a flammable liquid.

4. PROPER SHIPPING NAME (49 CFR 172.101). Aluminum alkyl.

5. REGULATION AFFECTED. 49 CFR 173.87, 173.134.

6. MODE OF TRANSPORTATION AUTHORIZED. Motor vehicle.

7. SAFETY CONTROL MEASURES: Packaging prescribed is:

a. Specially designed aluminum pressure vessel as described on Space Data Corporation drawing No. 355-15 Rev. B, and related drawings on file with the Office of Hazardous Materials Regulation (OHMR). Up to 250 pounds of material may be shipped in each vessel in accordance with Space Data Corporation drawing No. 474-10. Each vessel must be charged with a dry nitrogen blanket to not over 25 psig at 70° F. and be overpacked in plywood boxes at least 3/8 inch thick and fitted with saddle-type hold downs. Lids must be secured by at least two strong steel bands.

b. A Class C explosive squib valve may be installed in the aluminum pressure vessels when offered for transportation, providing the leads of the bridge wire are shorted together and the valves are so designed that in the event the valve should function all explosive reaction will be contained within the valve itself. The outlet port must be plugged so that leakage of the chemicals would be prevented.

8. SPECIAL PROVISIONS.

a. Persons who receive packages covered by this exemption may reship them pursuant to the provisions of 49 CFR 173.22a.

b. Packages specified herein marked "DOT SP 4242" prior to the issuance of this exemption may be transported under the terms of this exemption.

9. REPORTING REQUIREMENTS. Any incident involving loss of contents of the package must be reported to the OHMR as soon as practicable.

10. EXPIRATION DATE. April 1, 1981.

Issued at Washington, D.C.:

J R Grothe for

Alan I. Roberts
Associate Director for
Hazardous Materials Regulation
Materials Transportation Bureau

13 APR 1979
(DATE)

Address all inquiries to: Associate Director for Hazardous Materials Regulation, Materials Transportation Bureau, Research and Special Programs Administration, U.S. Department of Transportation, Washington, D.C., 20590. Attention: Exemptions Branch.

Dist: B of E, FHWA.