U.S. Department
of Transportation

**Research and
Special Programs
Administration**

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

MAR 13 1991

DOT-E 9975
(FIRST REVISION)

1. Allied-Signal, Inc., Morristown, New Jersey, is hereby granted an exemption from certain provisions of this Department's Hazardous Materials Regulations to offer packages prescribed herein of a certain flammable solid for transportation in commerce subject to the limitations and special requirements specified herein. This exemption authorizes the shipment of an aluminum/lithium alloy (powder and flake form) in a non-DOT specification stainless steel portable tank, and provides no relief from any regulation other than as specifically stated.

2. BASIS. This exemption is based on Allied-Signal, Inc.'s application dated August 13, 1990 and supplemental information dated January 31, 1991, submitted in accordance with 49 CFR 107.103 and the public proceeding thereon.

3. HAZARDOUS MATERIALS (Descriptor and class). Aluminum/lithium alloy (powder and flake form), classed as flammable solid.

4. PROPER SHIPPING NAME (49 CFR 172.101). Water reactive solid, n.o.s.

5. REGULATION AFFECTED. 49 CFR 173.154(a).

6. MODE OF TRANSPORTATION AUTHORIZED. Motor vehicle.

7. SAFETY CONTROL MEASURES. Packaging prescribed is a 3/16 inch thick (minimum), non-DOT specification, 304 stainless steel portable tank constructed in accordance with design drawing D20002P14-01, dated December 14, 1987, and other related drawings on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA). The tank is a cylinder (24 inch O.D.) with an ASME flanged and dished head and a conical lower section. The tank stands 40 3/4 inches high and is supported by a tripod which is an intergral part of the tank. The top of the tank has two flanged openings; one centered (6 1/4 inch I.D.) and one offset (3 inch O.D.). Each top opening is equipped with a blind flange, a V-retainer coupling, and a Buna-N O-ring gasket, and when closed, is gas tight. The bottom of the tank has one opening (3 inch I.D.) filed with a butterfly valve, blind flange, a V-retainer coupling, and a Buna-N O-Ring gasket, and when closed, is gas tight. The butterfly valve must be locked in the closed position during transportation. Each tank has a volume of 5.2 cubic feet and may be filled with not more than 500 pounds of aluminum/lithium alloy. Each tank must be securely closed and secured to the transport vehicle so as to withstand a loading two times the gross weight in any direction.

8. SPECIAL PROVISIONS.

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

b. Each portable tank must be plainly marked on both sides near the middle, in letters at least two inches high on a contrasting background, "DOT-E 9975."

c. Persons who receive packages covered by this exemption may reoffer them for transportation provided no modification or changes are made to the packages, all terms of this exemption are complied with and a current copy of this exemption is maintained at each facility from which such reoffering occurs.

d. Motor carriers operating under the terms of this exemption must have a "Satisfactory" or "Conditional" safety rating as prescribed in 49 CFR Part 385.

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

9. REPORTING REQUIREMENTS: Any incident involving loss of packaging contents or packaging failure must be reporting to the Associate Administrator for Hazardous Materials Safety as soon as practicable.

10. EXPIRATION DATE. July 31, 1991.

Issued at Washington, D.C.

Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

MAR 13 1991
(DATE)

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

Dist: FHWA.