



U.S. Department  
of Transportation

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

**Research and  
Special Programs  
Administration**

**SEP 14 2004**

DOT-E 10529  
(FIFTH REVISION)

EXPIRATION DATE: August 31, 2006

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: LND Incorporated  
Oceanside, NY
2. PURPOSE AND LIMITATIONS:
  - a. This exemption authorizes the manufacture, mark, sale and use of packagings described in paragraph 7 below for use in the transportation in commerce of the Division 2.2 material described in paragraph 6. This exemption provides no relief from any Hazardous Materials Regulation (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 consumer use, 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 §§ 173.302a and 175.3, except as specified herein.
5. BASIS: This exemption is based on the application of LND, Incorporated dated July 23 2004, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

<b>Proper Shipping Name/ Hazardous Material Description</b>	<b>Hazard Class/ Division</b>	<b>Identi- fication Number</b>	<b>Packing Group</b>
Argon, compressed	2.2	UN1006	N/A

7. SAFETY CONTROL MEASURES:

PACKAGING - Packagings prescribed are non-DOT specification, metal, single trip, inside containers, described as hermetically sealed electron tube radiation sensors. Each radiation sensor must be shipped in a strong outside packaging capable of withstanding a minimum drop test of six feet without breakage of the radiation sensor or rupture of the outside packaging. The design burst pressure of the radiation sensor must be at least 5 times the design pressure. Each radiation sensor must conform to one of the following:

a. A radiation sensor of approximately 5 inches in diameter, with a volume of 122 cubic inches water capacity, and a maximum working pressure of 172 psig. Each radiation sensor must be designed and constructed in accordance with LND Incorporated Drawing Number 2-050916-00 on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA). The radiation sensor must be shipped in a strong outside packaging conforming to LND Incorporated Drawing Number 2-296-0030-00.

b. A cylindrical radiation sensor of approximately 7 inches in diameter, with a volume of 517 cubic inches maximum water capacity, and a maximum working pressure of 426 psig. Each radiation sensor must be designed and constructed in accordance with LND Incorporated Drawing Number 2-499-0001-00 and shipped in a shipping container conforming to Drawing Number 1-296-0035-00 on file with the OHMEA.

c. A spherical radiation sensor of approximately 10 inches in diameter, with a volume of 487 cubic inches maximum water capacity and a maximum working pressure of 353 psig. Each sensor must be designed and constructed in accordance with LND Incorporated Drawing Number 2-499-0002-00 and shipped in a shipping container conforming to Drawing Number 1-296-0037-00, on file with OHMEA.

d. If repackaged, packagings used to ship larger equipment containing radiation sensors covered by this exemption must be strong outside packagings providing equivalent protection for the devices as specified in paragraph 7 above.

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.

d. Each packaging manufactured under the authority of this exemption must be marked with a registration symbol designated by the Office of Hazardous Materials Exemptions and Approvals for a specific manufacturing facility.

e. A current copy of this exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, cargo aircraft only, and passenger-carrying aircraft.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel, aircraft or motor vehicle used to transport packages covered by this exemption. The shipper must furnish a current 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, 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 also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued at Washington, D.C.:



Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

**SEP 14 2004**

(DATE)

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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: sln