



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**

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

**MAY 25 2004**

DOT-E 9998  
(SEVENTH REVISION)

EXPIRATION DATE: **March 31, 2006**

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Accumulators, Inc.  
Houston, TX
2. PURPOSE AND LIMITATION:
  - a. This exemption authorizes the transportation in commerce of certain steel hydraulic accumulators containing compressed nitrogen, a Division 2.2 material. 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, including loading and unloading.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.302(a)(1) and § 175.3 in that non-DOT Specification packaging is not authorized, except as specified herein.
5. BASIS: This exemption is based on the application of Accumulators, Inc. dated April 16, 2004 submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Nitrogen, compressed	2.2	UN1066	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging is a seamless steel hydraulic accumulators having a capacity of not more than 15 gallons, with a design pressure not exceeding 6,000 psig designed and fabricated in full compliance with Section VIII of the ASME Code, and the following drawings of Accumulators, Inc. on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA):

DRAWING NUMBER	DATE
AI-S3-100-M	11/16/87
AXTR5100/AXTR6100 and CAI-5K & CAI-622	10/07/96
AX5100/AX6100 and CAI-5K & CAI-622	10/07/96
AXTR3100/AXTR4100 and CAI-3K & CAI-422	10/04/96
AX3100/AX4100 and CAI-3K & CAI-422	10/04/96
CAM631003	12/16/97
CAM2031003	12/18/97
CAM3031003	12/19/97
CAM4531003	6/4/98
CAM9031003	4/8/98
CAM15031003	6/11/98

Each accumulator must be constructed to relieve pressure without bursting in a fire or must be equipped with a safety device as required in § 173.301(f).

b. TESTING - Accumulators must be tested without evidence of failure or damage, to at least one and one-half times the design pressure prior to each refill and reshipment.

c. OPERATIONAL CONTROLS:

(1) Charged pressure, at 70°F, for shipment may not exceed 70 percent of the design pressure.

(2) Each accumulator must be shipped as an inside packaging in accordance with § 173.301(a)(9).

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. MARKING - Each outside packaging must be marked "DOT-E 9998" and "NITROGEN-HYDRAULIC ACCUMULATORS".

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

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel and 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 any air 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.

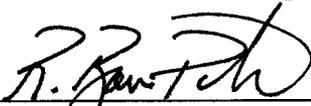
- o Persons operating under the terms of this exemption must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

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 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

MAY 25 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: sdc