



U.S. Department
of Transportation

Research and
Special Programs
Administration

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

APR 29 2004

DOT-E 10898
(SIXTH REVISION)

EXPIRATION DATE: January 31, 2006

(FOR RENEWAL, SEE 49 CFR § 107.109.)

1. GRANTEE: HYDAC Corporation
Bethlehem, Pennsylvania

(See Appendix A to this document for a list of additional grantees)

2. PURPOSE AND LIMITATION:

a. This exemption authorizes the transportation in commerce of a Division 2.2 material (nitrogen) in diaphragm and bladder type accumulators, subject to the limitations and special requirements specified herein. This exemption provides no relief from any Hazardous Materials Regulations (HMR) other than as specifically stated.

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 § 173.302a(a)(1) in that a non-DOT specification packaging is not authorized, except as specified herein; and §175.3.
5. BASIS: This exemption is based on the application of HYDAC Corporation dated February 4, 2004, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous materials description/proper shipping name	Hazard Class/ Division	Identification number	Packing Group
Nitrogen, compressed	2.2	UN1066	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a steel hydraulic accumulator designed and fabricated in accordance with Section VIII of the ASME Code. All accumulators with an inside diameter of over 6 inches are ASME Code "U" stamped. Accumulators must be in conformance with the following design parameters:

(1) A welded diaphragm accumulator having a capacity of not over 1 gallon, complying with HYDAC Corporation Series SBO 100, SBO 140, SBO 200, SBO 210, SBO 250, and SBO 330. The accumulator must have a design pressure not exceeding 4,700 psi, and a minimum 4 to 1 burst to design pressure ratio.

(2) A seamless bladder accumulator having a capacity of not over 15 gallons, complying with HYDAC Corporation Series SB 330 and SB 600. The accumulator must have a design pressure not exceeding 5,000 psi, and a minimum 4 to 1 burst to design pressure ratio.

(3) 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 - Each accumulator must be tested without evidence of failure or damage, to at least 1 1/2 times the design pressure prior to each refill and reshipment.

c. MARKING - Each accumulator must be shipped as an inside packaging in accordance with § 173.301(k). Each outside container must be marked "DOT-E 10898" and "NITROGEN-HYDRAULIC ACCUMULATORS".

8. SPECIAL PROVISIONS:

a. The charged pressure, at 70°F, for shipment may not exceed 70 percent of the design pressure.

b. 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 modification or change is made to the package or its contents and it is reoffered 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.

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 or aircraft 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 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 inform the AAHMS, in writing, of any incidents 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

APR 29 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: dl

The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Airline Hydraulics Corporation Bensalem, PA	Jan 06, 2004	Mar 10, 2004	Jan 31, 2006
Department of Defense (DOD) Fort Eustis, VA	Mar 31, 2003	Apr 30, 2003	Apr 30, 2004
Flodyne/Hydradyne, Inc. Hanover Park, IL	Jan 28, 2004	Mar 10, 2004	Jan 31, 2006
Fluid System Components, Inc. De Pere, WI	Mar 1, 2004	Apr 29, 2004	Jan 31, 2006
Hydac Technology Corp. Bethlehem, PA	Feb 2, 2004 & May 4, 2004	MAY - 4 2004	Jan 31, 2006
Hydac Technology Corp., Hydraulic Division Glendale Heights, IL	Feb 2, 2004 & May 4, 2004	MAY - 4 2004	Jan 31, 2006
Hydac Technology Corporation Houston, TX	Feb 2, 2004	Apr 29, 2004	Jan 31, 2006
Hydradyne, Inc. Hanover Park, IL	Jul 03, 2002	Aug 14, 2002	Apr 30, 2004



RA Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety