



U.S. Department  
of Transportation

Research and  
Special Programs  
Administration

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

MAR 24 2004

DOT-E 8971  
(NINTH REVISION)

EXPIRATION DATE: January 31, 2006

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Baker Atlas  
Houston, TX  
(Former grantee: Western Atlas International,  
Inc.)

(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 Bromine trifluoride in certain non-refillable, non-DOT specification cylinders of equal or greater integrity than those currently authorized. 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.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.101, Column (9B) in that this material is forbidden by cargo aircraft only, and §§ 173.228 and 175.3 in that a non-DOT specification packaging is not authorized, except as specified herein.

5. BASIS: This exemption is based on the application of Baker Atlas dated January 27, 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
Bromine trifluoride	5.1	UN1746	I, Hazard Zone B

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packagings are non-DOT specification non-refillable cylinders as follows:

(1) Constructed from not greater than 1 inch inside diameter by at least .344 inch thick side wall SAE 4140 Alloy seamless steel tubing with threaded plug closures at each end. Design rupture pressure, 65000 psi. Maximum volume is 61 cubic inches water capacity. Cylinder must be designed and constructed in accordance with McCullough Tool Company drawing 6110-8-90 Revision A dated October 24, 1972, or NL McCullough drawings 6105-8-90, 6106-8-90, 6108-8-90, 6113-8-90, 6134-8-90 or 6120 (submitted with NL McCullough March 23, 1981, application) on file in the Office of Hazardous Materials Exemptions and Approvals (OHMEA).

(2) Constructed from not greater than 2 inches outside diameter by at least .350 inch thick side wall SAE 4140 Alloy steel tubing with threaded plug closures at each end. Maximum volume is 61 cubic inches water capacity. Cylinder must be designed and constructed in accordance with NL McCullough drawing 6115-12 dated January 4, 1982; 6115-122, Rev. 0 dated November 2, 1982, and P6114-11 submitted on January 14, 1983, and tested as proposed in the application on file in OHMEA or in accordance with NL McCullough's drawing 6115-122 dated February 30, 1972, submitted with NL McCullough's application dated March 13, 1984.

(3) Constructed from not greater than 1.25 inches inside diameter by at least .188 inch thick side wall SAE 4140 Alloy steel tubing with threaded plug closures at each end. Maximum volume is 57 cubic inches water capacity. Cylinder must be designed, constructed and

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tested in accordance with the application submitted by Baker Atlas dated June 21, 2001 on file in OHMEA.

b. OPERATIONAL CONTROLS -

- (1) Maximum permitted filling density is 75 percent.
- (2) Rupture discs must be rendered non-functional in transportation by installation of shipping plugs.
- (3) Prescribed packaging must be shipped in boxes as described in the application in accordance with § 173.301(a)(9).
- (4) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the pressure relief devices fitted on the cylinder have been rendered non-functional and provide appropriate guidance for exposure to fire.

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. Each non-DOT specification cylinder must be plainly and durably marked "NON-REFILLABLE CYLINDER" in letters at least 1/4 inch high.

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 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:

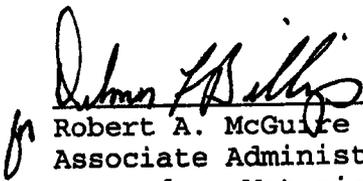
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this exemption must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required 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 this 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 Safety

MAR 24 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.

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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: SStaniszewski/dl

**APR 29 2004**

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
Pipe Recovery Systems, Inc. Houston, TX	Apr 5, 2004	<b>APR 29 2004</b>	Jan 31, 2006

*Robert A. McGuire*

Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

**APR 29 2004**

Date

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