U.S. Department
of Transportation

**Research and
Special Programs
Administration**

APR 26 2000

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

DOT-E 7879
(FOURTH REVISION)

EXPIRATION DATE: **March 31, 2002**

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Halliburton Energy Services
Duncan, OK

2. PURPOSE AND LIMITATION:

   a. This exemption authorizes the transportation in commerce of bromine trifluoride in non-DOT specification cylinders similar to DOT 3E cylinders. 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 §§ 173.228(b) and 175.3 in that a non-DOT specification cylinder is authorized.

5. BASIS: This exemption is based on the application of Halliburton Energy Services dated April 10, 2000, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi-fication Number	Packing Group
Bromine trifluoride	5.1	UN1746	I, Hazard Zone B

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a non-DOT specification seamless cylinder described as a chemical casing cutter tool complying with Gearhart Owen Drawings 36-1020-20 and 36-1021-20 and DOT 3E specification (§§ 178.35 and 178.42), except as follows:

(1) § 178.35(e) Safety devices. Safety relief devices are not required.

(2) § 178.42(a) Type, sizes, and service pressure. Size is 1 11/16 inches O.D. or 2 inches O.D. by 50.5 inches long. Maximum charged pressure is 700 psig at 130°F.

(3) § 178.42(b) Steel. 4130X steel is required.

(4) § 178.42(d) Manufacture. Add "Spinning of ends is prohibited".

(5) § 178.42(e) Openings in cylinders and connections (valves, fuse plugs, etc.) for those openings. Add "Openings in both ends are authorized".

(6) § 178.42(f) Hydrostatic test. Each cylinder must be tested at 8,500 psig without evidence of failure.

(7) § 178.42(g) Leakage test. Does not apply.

(8) § 178.42(i) Marking. Each cylinder must be marked "DOT-E 7879" in lieu of DOT 3E.

b. OPERATIONAL CONTROLS -

(1) Each cylinder must be individually packed and shipped in strong outside packagings conforming with § 173.301(k).

(2) Each outside packaging must be plainly marked "DOT-E 7879."

(3) Each cylinder must be inspected and cleaned after each use and prior to each refill in accordance with Chemical Cutter Manual and Instruction procedures for inspection and preparation for refilling.

(4) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the receptacles are not fitted with pressure relief devices 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.

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

10. MODAL REQUIREMENTS: A 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 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:

- All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.

- 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 at Washington, D.C.:

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For Robert A. McGuire
Acting Associate Administrator for
Hazardous Materials Safety

(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.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

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Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, Washington, DC 20590-0001, Attention: Docket Section, 202-366-5046.

PO: AM(00)