

November 8, 2006



U.S. Department  
of Transportation

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

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 13088  
(THIRD REVISION)

EXPIRATION DATE: September 30, 2010

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Electron Transfer Technologies, Inc.  
Edison, NJ
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of certain non-DOT specification multi-phase material containers containing Divisions 2.3, 6.1, and Class 8 materials. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
  - b. The safety analyses performed in development of this special permit 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.
  - c. Party status will not be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.40, 173.192, and 175.3 in that the multi-phase material container is not an authorized packaging, except as specified herein.

5. BASIS: This special permit is based on the application of Electron Transfer Technologies, Inc. dated October 9, 2006, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

<b>Hazardous Material Description</b>			
<b>Proper Shipping Name</b>	<b>Hazard Class/ Division</b>	<b>Identification Number</b>	<b>Packing Group</b>
Arsenic	6.1	UN1558	II
Arsine	2.3	UN2188	N/A
Germane	2.3	UN2192	N/A
Phosphine	2.3	UN2199	N/A
Potassium hydroxide, solution	8	UN1814	II
Toxic solid, inorganic, n.o.s.	6.1	UN3288	I, II, or III

7. SAFETY CONTROL MEASURES

a. PACKAGING -

(1) Prescribed packaging is described as a multi-phase material container. The welded stainless steel container is a pressure vessel with a removable multi-screw flange on top. The pressure vessel must be designed and constructed according to Section VIII Division 1 of the ASME Code. The pressure vessel is not ASME Code "U" stamped. The pressure vessel has a maximum capacity of 7 liters and a rated design working pressure of 30 psig. The pressure vessel is not equipped with a pressure relief device. The multi-phase material container and overpack must be in accordance with drawings on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA).

(2) The multi-phase material container must be overpacked in a reusable 30-gallon UN1A2 PG 1 steel drum. The drum must have a bolted, gasketed lid with gasketed ports for sampling. The drum must have an absorbent in the event of valve leakage and foam inserts to support the container within.

b. TESTING - Prior to each shipment, the multi-phase material container must be internally and externally visually inspected and helium leak tested at 25 psig. The inspection and testing must be performed in accordance with Electron Transfer Technologies written QA checklist on file with the OHMSPA. Any container with a leak must not be shipped.

c. OPERATIONAL CONTROLS -

(1) The multi-phase material container must be shipped at no greater than atmospheric pressure.

(2) 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 special permit who receives a package covered by this special permit 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 special permit and the HMR.

b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

c. Each multi-phase material container and overpack must be plainly and durably marked "DOT-SP 13088" in accordance with § 172.301(c).

d. Packagings permanently marked 'DOT-E 13088', prior to October 1, 2007 may continue to be used under this special permit for the remaining service life of the packaging or until the special permit is no longer valid. Packagings marked on or after October 1, 2007 must be marked 'DOT-SP 13088'.

e. Shipping papers displaying 'DOT-E 13088' may continue to be used until October 1, 2007, provided the special permit remains valid.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, cargo vessel and cargo aircraft only.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel, aircraft or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a copy of this special permit 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 special permit 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 special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
  - o Persons operating under the terms of this special permit 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 special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)- 'The Hazardous Materials Safety and Security Reauthorization Act of 2005' (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term 'exemption' to 'special permit' and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Robert A. McGuire  
Associate Administrator  
for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, Department of Transportation, Washington, D.C. 20590. Attention: PHH-31.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [http://hazmat.dot.gov/sp\\_app/special\\_permits/spec\\_perm\\_index.htm](http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm) Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: CWFreeman/sln