1. **GRANTEE:** Arkema Inc.  
   King of Prussia, PA

2. **PURPOSE AND LIMITATION:**
   a. This special permit authorizes the one-way transportation in commerce of Boron Trifluoride (BF3) in a non-DOT specification cylinder. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
   
   b. The safety analyses performed in the development of this special permit only considered the hazards and risks associated with the transportation in commerce.

   c. No party status will 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 §§ 173.301 and 173.302 in that non-specification cylinders are not authorized, except as specified herein.

5. **BASIS:** This special permit is based on the application of Arkema Inc. dated May 30, 2023, submitted in accordance with § 107.105 and the public proceeding thereon.

Tracking Number: 2023055356
6. **HAZARDOUS MATERIALS (49 CFR 172.101):**

<table>
<thead>
<tr>
<th>Hazardous Materials Description</th>
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<tbody>
<tr>
<td>Proper Shipping Name</td>
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<tr>
<td>Boron trifluoride</td>
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</table>

7. **SAFETY CONTROL MEASURES:**

a. **PACKAGING:** The prescribed packaging is non-DOT specification seamless steel cylinder that has European Economic Council (EEC) pattern approval, E1F9101. The cylinder has nominal water capacity of 50L and design test pressure of 300 bar. The cylinder drawing, inspection and verification certifications are included with Arkema Inc.’s application on file with the Office of Hazardous Materials Safety (OHMS).

b. **OPERATIONAL CONTROLS:**

(1) Only one cylinder charged with BF3 is involved in this one-way shipment back to France. The cylinder must be visually inspected for any damage or leaks and shipped in accordance with the provisions of § 173.40(d) applicable to DOT specification and UN cylinders.

(2) The shipping paper must identify the cylinders with the special permit number “DOT-SP 21580”.

(3) Arkema Inc., must act as the offeror (shipper) and the cylinder must be transported by dedicated truck.

(4) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the cylinders are not fitted with pressure relief devices and provide appropriate guidance for exposure to fire.

(5) Ground transportation in the United States shall be limited to one way shipment from Arkema’s distributor (Rinchem, Savannah) to the Port of Savannah, Georgia for return to France.
8. **SPECIAL PROVISIONS:**

a. A current copy of this special permit must be maintained at each facility where the package is offered.

b. **MARKING:** The outside of each package must be plainly and durably marked “DOT-SP 21580”

9. **MODES OF TRANSPORTATION AUTHORIZED:** Motor vehicle, cargo vessel.

10. **MODAL REQUIREMENTS:** A current copy of this special permit must be carried aboard each cargo vessel and motor vehicle used to transport packages covered by this special permit.

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.:

[Signature]

for William Schoonover
Associate Administrator for Hazardous Materials Safety


Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [https://www.phmsa.dot.gov/approvals-and-permits/hazmat/special-permits-search](https://www.phmsa.dot.gov/approvals-and-permits/hazmat/special-permits-search). Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: RS/Casey Chambers/AE