DOT-SP 16172
(FIFTH REVISION)

EXPIRATION DATE: 2027-09-30

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Entegris, Inc.
   Billerica, MA

2. PURPOSE AND LIMITATION:
   a. This special permit authorizes the transportation in commerce of certain Division 2.3 gases in DOT 3AA specification cylinders that are not fitted with a pressure relief device. This special permit provides no relief from the Hazardous Materials Regulations (HMR) or International Maritime Dangerous Goods Code (IMDG), as applicable, for the safe transport of dangerous goods 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.

   d. This special permit serves as an “Approval” under Chapter 4.1, Section 4.1.3.7 and Chapter 7.9, Section 7.9.2 of the IMDG Code and as a “Competent Authority Approval” as defined under 49 CFR § 107.1.


4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.301(f) in that a DOT specification cylinder without a pressure relief device is not authorized, except as specified herein.
5. **BASIS**: This special permit is based on the application of Entegris, Inc. dated February 12, 2024, submitted in accordance with § 107.105 and the public proceeding thereon.

6. **HAZARDOUS MATERIALS (49 CFR 172.101):**

<table>
<thead>
<tr>
<th>Hazardous Materials Description</th>
<th>Hazard Class/Division</th>
<th>Identification Number</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquefied gas toxic, flammable, corrosive, n.o.s. (contains germanium tetrafluoride and hydrogen) <em>Inhalation Hazard Zone B</em></td>
<td>2.3</td>
<td>UN3309</td>
<td>N/A</td>
</tr>
<tr>
<td>Liquefied gas toxic, flammable, corrosive, n.o.s. (contains germanium tetrafluoride and hydrogen) <em>Inhalation Hazard Zone C</em></td>
<td>2.3</td>
<td>UN3309</td>
<td>N/A</td>
</tr>
<tr>
<td>Liquefied gas toxic, flammable, corrosive, n.o.s. (contains boron trifluoride and hydrogen) <em>Inhalation Hazard Zone B</em></td>
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<td>Liquefied gas toxic, flammable, corrosive, n.o.s. (contains phosphorous trifluoride and hydrogen) <em>Inhalation Hazard Zone B</em></td>
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<td>UN3309</td>
<td>N/A</td>
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<tr>
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</tr>
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7. **SAFETY CONTROL MEASURES:**
   
a. **PACKAGING:** Prescribed packaging is a DOT Specification 3AA cylinder rated for at least 2015 psi service pressure that is in conformance with all requirements of the HMR, except it is not fitted with a pressure relief device as required in § 173.301(f).

   b. **OPERATIONAL CONTROLS:** The emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the cylinders are not fitted with a pressure relief device and provide appropriate guidance for exposure to fire.

8. **SPECIAL PROVISIONS:**
   
a. Under the terms of this special permit, the grantee may only offer hazardous materials (i.e., the grantee is not authorized as a carrier).

   b. 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 and it is reoffered for transportation in conformance with this special permit and the HMR.

   c. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.
d. This special permit in no way affects the need to obtain any required authorizations from other agencies of the United States Government or from the competent authorities of countries of origin, transit, and destination.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle and cargo vessel.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel or 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, inwriting, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:

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. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: RS