



U.S. Department  
of Transportation

**Pipeline and Hazardous  
Materials Safety  
Administration**

**March 06, 2024**

1200 New Jersey Avenue, SE  
Washington, DC 20590

DOT-SP 21354  
(SECOND REVISION)

**EXPIRATION DATE: 2028-01-31**

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Resonac America, Inc.  
San Jose, CA
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of dichlorosilane in certain non-DOT specification foreign cylinders by motor vehicle and cargo vessel. 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 § 171.23(a)(1) and (3) in that DOT specification cylinders are required, except as described herein.
5. BASIS: This special permit is based on the application of Resonac America, Inc. dated December 12, 2023, submitted in accordance with § 107.109.

Tracking Number: 2023124714

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Dichlorosilane	2.3	UN2189	N/A  Hazard Zone B

7. SAFETY CONTROL MEASURES:

a. PACKAGING: Prescribed packaging is non-DOT specification 316L stainless steel welded cylinder of 40 Liter water capacity which is designed, manufactured, and tested in conformance with the Japanese Gas Law by Koatsu Showa Cylinders Co., Ltd. The foreign cylinders must be in conformance with drawing AW.4.60108 on file with the Office of Hazardous Materials Safety (OHMS).

b. OPERATIONAL CONTROLS:

- (1) Cylinders must be shipped in accordance with the provisions of § 173.40(d) applicable to DOT specification and UN cylinders. The filling ratio must not exceed 0.90.
- (2) The shipping paper must identify the cylinders with the special permit number "DOT-SP 21354".
- (3) Resonac America, Inc. must act as the offeror (shipper).
- (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) This special permit is limited to import shipments of 60 cylinders per month direct to the customer and 60 returned from the customer with residual charge to the supplier. These cylinders may not be filled in the United States. If the total number of cylinders that are shipped exceeds the previously stated values, Resonac America, Inc. must notify the OHMS and request authorization in writing to exceed the monthly limit.

(6) Cylinders authorized under this special permit:

- (i) Must be used exclusively in dichlorosilane service as described in this special permit;
- (ii) Must not be used more than five years after the date of manufacture (must be retired from service on or before expiration of their 5-year service life); and
- (iii) Are not eligible for requalification.

(7) Resonac America, Inc. must maintain a record of the cylinders that are in use or have been used under the terms of this special permit. The record must include the serial number of the cylinder, the date of manufacture and end date of their 5-year service life. Resonac America, Inc. must also maintain a record of the serial number of all cylinders that have exceeded their five-year service life and have been removed from service. These records must be maintained for the duration of this special permit and must be made available to a representative of the DOT upon request.

(8) Cylinders authorized under this special permit may be transported by cargo vessel only when loaded into closed cargo transport units.

8. SPECIAL PROVISIONS:

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

b. MARKING: The outside of each package must be plainly and durably marked "DOT-SP 21354".

c. Any person who receives a package covered by this special permit may offer it for transportation when it contains only a residue of the authorized material, provided no modification or change is made to the packaging and the package is transported only to the grantee in accordance with this special permit. Securing a closure on the package in accordance with the closure instructions prior to offering the package for transportation does not constitute a modification or change to the packaging.

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 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.:



for William Schoonover  
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-13, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

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.

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