



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

April 29, 2025

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 20930
(SECOND REVISION)

EXPIRATION DATE: 2029-03-31

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: EMD Performance Materials Corp.
Philadelphia, PA
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of certain DOT Specification 4B cylinders that are requalified every 10 years in lieu of every 5 years when used exclusively for certain non-corrosive pyrophoric, water-reactive, and flammable solids authorized by this special permit. 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 180.209(e) in that cylinders containing pyrophoric, water-reactive, and flammable solids may be requalified every 10 years.
5. BASIS: This special permit is based on the application of EMD Performance Materials Corp. dated February 24, 2025, submitted in accordance with § 107.109.

Tracking Number: 2025024777

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Organometallic substance, liquid pyrophoric	4.2	UN3392	I
Organometallic substance, liquid, pyrophoric, water-reactive	4.2	UN3394	I
Pyrophoric liquid, inorganic, n.o.s.	4.2	UN3194	I
Pyrophoric liquid, organic, n.o.s.	4.2	UN2845	I
Water reactive solid, flammable, n.o.s.	4.3	UN3132	I
Organometallic substance, liquid, water-reactive	4.3	UN3398	I
Organometallic substance, solid, pyrophoric, water-reactive	4.2	UN3393	I
Organometallic substance, liquid, water-reactive, flammable	4.3	UN3399	I
Water-reactive liquid, poisonous, n.o.s.	4.2	UN3130	I
Organometallic substance, solid, water-reactive, flammable	4.3	UN3396	I
Flammable Solid, organic, n.o.s.	4.1	UN1325	II

7. SAFETY CONTROL MEASURES:

a. PACKAGING: Prescribed packagings are DOT-Specification 4B cylinders (§ 178.35, § 178.50) manufactured from 316L stainless steel. The cylinders must be limited to a maximum water capacity of 1,100 cubic inches (18 liters) and must be rated for a service pressure of at least 175 psig.

b. REQUALIFICATION: Each cylinder must be requalified using a hydrostatic pressure test in accordance with § 180.209(e) at 10-year intervals in lieu of every 5 years. Minimum test pressure must be 2 times marked service.

c. OPERATIONAL CONTROLS:

- (1) Cylinders authorized under this special permit must be used exclusively for the non-corrosive hazardous materials authorized herein.
- (2) Prior to each filling:
 - (i) The cylinders must be properly cleaned to control moisture and other contaminants within product quality limits.
 - (ii) Each cylinder must pass a helium leak test in accordance with the application for special permit on file with the Office of Hazardous Materials Safety.
- (3) Each cylinder may not be filled to more than 90% of its capacity.
- (4) Headspace of each cylinder must be filled with an inert gas to a positive pressure not to exceed 5 psig.
- (5) All closures must be closed and secured by a positive means of closure.
- (6) In addition to the DOT 4B specification marking, cylinders must be plainly and durably marked "DOT-SP 20930". Cylinders must be transported in strong outer packaging which must be marked "DOT-SP 20930".

8. SPECIAL PROVISIONS:

- a. Shippers (offerors) may use the cylinders specified and tested in accordance with the provisions of this special permit for the transportation in commerce of those hazardous materials specified herein, provided no modifications or changes are made to the cylinders. All terms of this special permit and other applicable requirements contained in 49 CFR Parts 100-185 must be met.
- 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 packaging 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.

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

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each motor vehicle or cargo vessel 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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