



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

September 23, 2025

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 21308
(SECOND REVISION)

EXPIRATION DATE: 2027-11-30

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Micropore, Inc.
Elkton, MD
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of lithium hydroxide in non-UN specification packaging by ground transport. 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 § 173.240(d) in that non-UN specification intermediate bulk containers are not authorized except as specified herein.
5. BASIS: This special permit is based on the application of Micropore, Inc. dated August 19, 2025, submitted in accordance with § 107.105 and the public proceeding thereon.

Tracking Number: 2025085786

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Lithium hydroxide	8	UN2680	II

7. SAFETY CONTROL MEASURES:

a. PACKAGING: Prescribed packagings are two non-UN specification steel intermediate bulk container (IBC) designs as described in the applications on file with the Office of Hazardous Materials Safety:

(1) The first IBC design has four solid sides (i.e. top, bottom, left, right), with open ends, and is manufactured of 14-gauge steel, welded on four corners. The IBC has two sides to place material in, with four spools of extruded lithium hydroxide on each side, separated by vertical steel bars. The spools are surrounded by a wire screen and held in place with a 0.5 inch-thick steel "T" bar to prevent release from the IBC. The open sides of the IBC are covered with a flexible aluminum sheet, magnetically held to the IBC.

(2) The second IBC design has five solid sides and a top with a hinged lid. The IBC contains seven spools of extruded lithium hydroxide, placed vertically within. The IBC is made of a tube steel frame with welded 14-gauge steel sides with an integrated pallet.

(3) The closed IBC is then pressurized to 12 psi with compressed nitrogen prior to shipment. No pressures above 20 psi are authorized, and the compressed nitrogen source must be removed prior to shipment.

(4) The completed package shall not exceed 1,655 lbs. gross weight.

b. OPERATIONAL CONTROLS:

(1) Shipments are only authorized between the following locations:

Micropore, Inc.
350 Pencader Drive, Suite F
Newark, DE 19702

Micropore, Inc.
1000 Konica Drive
Elkton, MD

- (2) IBCs shall be blocked, braced, or otherwise restrained to prevent movement or shifting during transportation.
- (3) Shipment shall be performed by fully enclosed, private, dedicated motor carrier.

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.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each 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 Quade
Acting 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.

PO: BB