



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

February 14, 2022

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 10501
(TWELFTH REVISION)

EXPIRATION DATE: 2025-12-31

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Semi-Bulk Systems, Inc.
Fenton, MO
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the repair and reuse of the UN13L2 flexible intermediate bulk container (IBC) described herein for the transportation in commerce of solid hazardous materials as specified in paragraph 6 below. 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 development of this special permit only considered the hazards and risks associated with transportation in commerce.
 - c. Party status will not 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 § 180.352(d) in that a flexible IBC may not be repaired, except as specified herein.
5. BASIS: This special permit is based on the application of Semi-Bulk Systems, Inc. dated January 19, 2022, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identificati on Number	Packing Group
Solid hazardous materials authorized by the HMR to be shipped in a UN13L2 flexible IBC	4.1, 4.2, 4.3, 5.1, 6.1, 8, and 9, as appropriate	As appropriate	II or III

7. SAFETY CONTROL MEASURES:

a. PACKAGING: Prescribed packagings are UN13L2 flexible intermediate bulk containers meeting all applicable requirements of Part 178 and consisting of flexible bulk bags which are attached to high density polyethylene pallets. The packaging is not designed or intended for top lifting or stacking and may not be top lifted or stacked. The packaging criteria are as follows:

(1) BAGS. The bags are constructed from woven polyester, nylon or other high strength synthetic fabric coated on both sides with a flexible plastic material(s) compatible with the hazardous material to be transported. The minimum uncoated fabric weight is 7 oz. per square yard for the sidewalls, and 5.5 oz. per square yard for the top. The upper sidewall of the bag is fitted with four straps with "D-rings" or with a rectangular-shaped bar of circular cross-section to support the bag from collapsing during filling and discharge but not for lifting the filled packaging.

(2) BASE. The base is a double-walled and rotationally molded high density polyethylene pallet which incorporates a 4-way fork lift entry. The top surface of the base is grooved. A very low porosity woven nylon membrane fits over the grooved top of the base to distribute fluidizing air and to prevent loss of contents. The bag is joined to the base by two metal ring clamps - one "U-shaped", the other flat.

Bag slippage is prevented by flanges in the base that receive the ring clamps and sewn-in ropes in the bag between which the ring clamps are placed. The bag-to-base joint is sealed by a soft, mastic sealant.

(3) CLOSURE. The filling opening in the top of the bag consists of a rigid plastic "manhole" attached to the top center of the bag by means of an internally-installed, gasketed clamp. The "manhole" is closed by means of a snap-on plastic cap fitted with a smaller plastic plug in the center of the cap. An additional "iris" isolation valve may be installed internal to the plastic cap. The discharge opening integral to the plastic base is closed by means of a positive lock, elastomer

expansion-type "o-plug". An additional isolation gate valve may be installed internal to the plug closure. The air inlet opening in the base is closed by means of a plastic plug.

(4) CAPACITY. The bags with circular cross-section are constructed in three sizes: 56 inches high (35 cubic foot capacity), 72 inches high (50 cubic capacity) and 85 inches high (62 cubic foot capacity) and are identical in all other respects. The maximum allowable gross weight is 4100 pounds for each design. The bag with rectangular cross-section is 97 inches high (85 cubic foot capacity), with a maximum allowable gross weight of 2500 pounds.

b. TESTING: Packaging must be successfully tested at the Packing Group II performance level in accordance with the provisions of Subpart O of Part 178 applicable to flexible intermediate bulk containers not designed to be lifted from the top. Test procedures, design type definition, frequency of testing, and record retention by Semi-Bulk Systems, Inc. must be as required by § 178.801.

c. MARKING: Each packaging must be permanently and durably marked in accordance with the requirements of § 172.331 in letters at least two inches high on a contrasting background.

d. REPAIR: The requirements of §§ 173.35(b) and 180.352(c) apply to the reuse of packagings under this special permit. Packagings showing evidence of damage upon visual inspection may be repaired and reused under the conditions prescribed in this paragraph.

(1) Repairs must be performed in accordance with Semi-Bulk Systems, Inc.'s "DOT Liner Repair Instructions" procedure (Document Number WI-08-107), which is on file with Office of Hazardous Materials Safety Approvals and Permits Division (OHMSAPD).

(2) Repaired packagings must have the integrity of undamaged packagings before reuse, and must be capable of passing the applicable performance tests in Subpart O of Part 178. Repairs made as provided in this special permit are not considered to alter the design type of the repaired packaging.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this special permit for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this special permit.

b. A person who is not a holder of this special permit, but 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 offered 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. Each packaging manufactured, reused and repaired under the authority of this special permit must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Special Permits and Approvals for a specific manufacturing facility.
 - e. A current copy of this special permit must be maintained at each facility where the package is manufactured under this special permit. It must be made available to a DOT representative upon request.
 - f. Semi-Bulk System Inc.'s "Pallet Liner Repair" must be kept at each location where such procedures are performed and must be made available to a DOT representative upon request.
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 and cargo vessel used to transport materials covered by this special permit.
 1. 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-30, 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: Andrew Eckenrode/kah