



U.S. Department  
of Transportation

**Pipeline and Hazardous  
Materials Safety  
Administration**

**October 18, 2024**

1200 New Jersey Avenue, SE  
Washington, DC 20590

DOT-SP 21802

**EXPIRATION DATE: 2026-09-30**

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Technologies Mindcore Inc (Mindcore Technologies Inc.)  
Terrebonne, Quebec, Canada

U.S. AGENT: KEC Precision LLC  
Athens, GA

2. PURPOSE AND LIMITATION:

a. This special permit authorizes the transportation in commerce of sulfur hexafluoride in a non-DOT specification pressure vessel, which is a component of an electric utility circuit interrupter unit. 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 § 172.301(c) in that each package need not be marked with the special permit number and § 173.304(a) in that a non-specification pressure vessel is authorized.

NOTE: This does not relieve a person from securing any approval required by Subpart I of Part 107 from the Associate Administrator for Hazardous Materials Safety.

Tracking Number: 2024065470

5. BASIS: This special permit is based on the application of Technologies Mindcore Inc (Mindcore Technologies Inc.) submitted on June 26, 2024, in accordance with § 107.105 and the public proceeding thereon and additional information submitted on August 12, 2024, and on August 23, 2024.
6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Sulfur hexafluoride	2.2	UN1080	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING:

(1) Packaging prescribed is a non-DOT specification pressure vessel that conforms to IEEE C37.016-2018, IEEE C37.04-2018, IEEE C37.100.1-2018, ASME Section VIII, Division 1, 2023 edition and Part 5 of Section VIII, Division 2 and is a component of an electronic utility interrupter unit.

(2) The maximum charge pressure may not exceed 100 psig. Each pressure vessel assembly must have a design burst pressure of 3.5 times the charge pressure at 70 °F. Each pressure vessel assembly must conform to the MindCore Technologies drawings submitted on August 23, 2024, and on file with the Office of Hazardous Material Safety (OHMS).

(3) Each pressure vessel assembly must be fitted with a pressure relief device conforming to the MindCore Technologies drawing submitted on August 12, 2024, and on file with the OHMS.

(4) The pressure relief device must be set to relieve at 150 psig. Each pressure vessel assembly must contain no more than 8 pounds of sulfur hexafluoride.

b. OPERATIONAL CONTROLS: Marking of each pressure vessel assembly with the special permit number is not required; however, the outside packaging must meet the marking and labeling requirements of 49 CFR Part 172, Subparts D and E.

- c. TESTING: Before being charged with sulfur hexafluoride gas:
  - (1) Each stainless-steel and fiberglass pressure vessel component must successfully pass a hydrostatic pressure test. Each vessel component must be pressurized to a minimum of 195 psig and held for one (1) minute without measurement of expansion.
  - (2) Each pressure vessel assembly must be leak tested with a halogen leak detector before each shipment. No evidence of leakage is allowed.
  - (3) Periodic re-testing is not required.
- 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.
- 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 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.

PO: AC