



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

March 28, 2025

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 16261
(FOURTH REVISION)

EXPIRATION DATE: 2029-02-28

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Dexsil Corporation
Hamden, CT
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of small quantities of certain Division 4.3 materials in specially-designed packagings shipped in accordance with the exceptions in § 173.13(a). This special permit provides no relief from the Hazardous Materials Regulations (HMR) or the International Civil Aviation Organization's Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO TI) 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.
 - d. This special permit serves as an "exemption" as defined in 1;3.1.1 of the ICAO TI and as a "Competent Authority Approval" as defined under 49 CFR § 107.1.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180 and the ICAO TI.

Tracking Number: 2024124574

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR 173.13(c)(1)(ii), 173.13(c)(1)(iii), and 173.13(c)(1)(iv) in that a snugly fitting metal can is required, § 173.13(c)(1)(iii) in that the metal can must be hermetically sealed, 5;3.1.1 of the ICAO TI in that hazard class labeling is required, and 4;6.2, Packing Instruction 480, Additional Packing Requirements for Combination Packagings – Packing Group I in that threaded closures and absorbent material are required, except as specified herein.
5. BASIS: This special permit is based on the application of Dexsil Corporation dated December 10, 2024, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Alkali metal dispersions*	4.3	UN1391	I
Calcium hydride*	4.3	UN1404	I

*Only Clor-N-Oil, Clor-D-Tect, Clor-N-Soil, HydroCLOR, and L2000DX shelf packs, double packs, and case-lots (see paragraphs 7.a.(3) through 7.a.(5) below) and HYDROSCOUT one pack test kits, two pack test kits, and four pack test kits (see paragraphs 7.a.(6) through 7.a.(8) below) as specified in the application submitted September 19, 2014 and additional information dated June 19, 2015 and on file with the Office of Hazardous Materials Safety may be offered for transportation under the terms of this special permit. Individual test or refill kits (see paragraphs 7.a.(1) and 7.a.(2) below) may not be transported under the terms of this special permit unless packaged within shelf packs, double packs, or case-lots conforming to paragraphs 7.a.(3) through 7.a.(5) below.

7. SAFETY CONTROL MEASURES:

- a. PACKAGING: Clor-N-Oil, Clor-D-Tect, Clor-N-Soil, HydroCLOR, and L2000DX shelf packs, double packs, and case-lots conforming to paragraphs 7.a.(3) through 7.a.(5) below are authorized to be transported under the terms of this special permit. Individual test or refill kits (see paragraphs 7.a.(1) and 7.a.(2) below) may not be transported under the terms of this special permit unless packaged within shelf packs, double packs, or case-lots conforming to paragraphs 7.a.(3) through 7.a.(5) below. HYDROSCOUT one pack test kits, two pack test kits, and four pack test kits conforming to paragraphs 7.a.(6) through 7.a.(8) below are authorized to be transported under the terms of this special permit.

(1) Clor-N-Oil individual test kits must conform to the following requirements:

- (i) One sealed glass ampule containing a maximum of 0.18 grams of alkali metal dispersion (a maximum of 0.035 grams of sodium metal dispersed in mineral oil) must be packaged in a tubular plastic casing.
- (ii) One tubular plastic casing containing the ampule described in paragraph 7.a.(1)(i) must be packaged in a polyethylene test tube. The minimum wall thickness of the polyethylene test tube must be 0.762 mm (0.03 inch).
- (iii) One polyethylene test tube described in paragraph 7.a.(1)(ii) must be packaged in a chipboard box conforming to the requirements in § 173.4.

(2) Clor-D-Tect, Clor-N-Soil, and L2000DX individual test and refill kits must conform to the following requirements:

- (i) One sealed glass ampule containing a maximum of 0.35 grams of alkali metal dispersion (a maximum of 0.07 grams of sodium metal dispersed in mineral oil) must be packaged in a tubular plastic casing.
- (ii) One tubular plastic casing containing the ampule described in paragraph 7.a.(2)(i) must be packaged in a polyethylene test tube. The minimum wall thickness of the polyethylene test tube must be 0.762 mm (0.03 inch).
- (iii) One polyethylene test tube described in paragraph 7.a.(2)(ii) must be packaged in a chipboard box conforming to the requirements of § 173.4.

(3) Shelf packs must conform to the following requirements:

- (i) A maximum of twenty individual test or refill kits described in paragraphs 7.a.(1) or 7.a.(2) must be sealed in a MIL-B-131H foil bag.
- (ii) One foil bag containing up to twenty individual test or refill kits must be packaged within a UN4G fiberboard box tested at the Packing Group I performance level.

- (iii) The maximum quantity of alkali metal dispersion and sodium metal dispersed in mineral oil and shelf packs containing Clor-N-Oil may not exceed 3.6 grams and 0.7 grams, respectively.
- (iv) The maximum quantity of alkali metal dispersion and sodium metal dispersed in mineral oil for shelf packs containing Clor-D-Text, Clor-N-Soil, HydroCLOR, or L2000DX may not exceed 7.0 grams and 1.4 grams, respectively.
- (4) Double packs must conform to the following requirements:
 - (i) Two shelf packs described in paragraph 7.a.(3) must be packaged within a UN 4G fiberboard box tested at the Packaging Group I performance level.
 - (ii) The maximum quantity of alkali metal dispersion and sodium metal dispersed in mineral oil for double packs containing Clor-N-Oil may not exceed 7.2 grams and 1.4 grams, respectively.
 - (iii) The maximum quantity of alkali metal dispersion and sodium metal dispersed in mineral oil and double packs containing Clor-D-Text, Clor-N-Soil, HydroCLOR, or L2000DX may not exceed 14.0 grams and 2.8 grams, respectively.
- (5) Case-lots must conform to the following requirements:
 - (i) Four shelf packs described in paragraph 7.a.(3) must be packaged within a UN 4G fiberboard box tested at the Packing Group I performance level.
 - (ii) The maximum quantity of alkali metal dispersion and sodium metal dispersed in mineral oil for case-lots containing Clor-N-Oil may not exceed 14.4 grams and 2.8 grams, respectively.
 - (iii) The maximum quantity of alkali metal dispersion and sodium metal dispersed in mineral oil for case-lots containing Clor-D-Tect, Clor-N-Soil, HydroCLOR, or L2000DX may not exceed 28.0 grams and 5.6 grams, respectively.
- (6) HYDROSCOUT one pack test kits must conform to the following requirements:

- (i) One sealed glass ampule containing a maximum of 0.084 grams of calcium hydride must be packaged in a tubular plastic straw.
 - (ii) One tubular plastic straw containing the ampule described in paragraph 7.a.(6)(i) must be packaged in a polyethylene test tube.
 - (iii) Forty polyethylene test tubes described in paragraph 7.a.(6)(ii) must be inserted upright into “locating” holes in a chipboard box.
 - (iv) One chipboard box containing forty polyethylene test tubes described in paragraph 7.a.(6)(iii) must be sealed in a MIL-B-131H foil bag.
 - (v) One foil bag containing up forty polyethylene test tubes must be packaged within a UN4G fiberboard box tested at the Packing Group I performance level.
 - (vi) The maximum quantity of calcium hydride within a HYDROSCOUT one pack test kit may not exceed 3.36 grams.
- (7) HYDROSCOUT two pack test kits must conform to the following requirements:
- (i) Two HYDROSCOUT one pack test kits described in paragraph 7.a.(6) must be packaged within a UN 4G fiberboard box tested at the Packing Group I performance level.
 - (ii) The maximum quantity of calcium hydride within a HYDROSCOUT two pack test kit may not exceed 6.72 grams.
- (8) HYDROSCOUT four pack test kits must conform to the following requirements:
- (i) Three or four HYDROSCOUT one pack test kits described in paragraph 7.a.(6) must be packaged within a UN 4G fiberboard box tested at the Packing Group I performance level.
 - (ii) The maximum quantity of calcium hydride within a HYDROSCOUT four pack test kit may not exceed 13.44 grams.
 - (iii) When three HYDROSCOUT one pack test kits are shipped in a HYDROSCOUT four pack test kit, the void space must be filled with sufficient cushioning material to ensure no movement of the remaining HYDROSCOUT one pack test kits inside the package.

b. MARKING: In lieu of the marking in § 173.13(d), the outside of each package must be marked “DOT-SP 16261” in accordance with § 172.301(c).

c. This special permit does not waive the requirement for a CARGO AIRCRAFT ONLY label required by § 173.13(a) and labels required by 5;3.2.12 of the ICAO TI.

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, the HMR, and the ICAO TI.

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

d. For purposes of transportation by cargo aircraft, this special permit also constitutes an exemption to the ICAO TI in accordance with 1;1.1.3.

e. This special permit in no way affects the need to obtain any required authorizations from other agencies of the United States Government or from the competent authorities of the States of origin, transit, over flight, and destination of the consignment, as well as the State of the air operator.

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

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each aircraft or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a copy of this special permit to the air carrier before or at the time the shipment is tendered.

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: Jephthah Nti