1. **GRANTEE:** Zhejiang Chumboon Iron-Printing & Tin-making Co., Ltd.
   Zhejiang Province, China

   **U.S. AGENT:** Theodore A. Parker
   Walpole, MA

2. **PURPOSE AND LIMITATIONS:**

   a. This special permit authorizes the manufacture, marking, sale and use of a non-refillable, non-DOT specification inside metal container, similar to a DOT 2Q, that contain liquefied and refrigerant gases rather than aerosols. 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. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.

   c. In accordance with 49 CFR 107.107(a) party status may not be granted to a manufacturing permit. These packagings may be used in accordance with 49 CFR 173.22a.

3. **REGULATORY SYSTEM AFFECTED:** 49 CFR Parts 106, 107 and 171-180.

4. **REGULATIONS FROM WHICH EXEMPTED:** 49 CFR § 173.304(d) in that non-DOT specification containers are not authorized § 173.167(a)(1) in that only non-toxic aerosols may be transported as a consumer commodity, except as specified herein.
5. **BASIS:** This special permit is based on the application of Zhejiang Chumboon Iron-Printing & Tin-making Co., Ltd. dated September 30, 2022, submitted in accordance with § 107.105 and the public proceeding thereon.

6. **HAZARDOUS MATERIALS (49 CFR 172.101):**

<table>
<thead>
<tr>
<th>Hazardous Material Description</th>
<th>Hazard Class/ Division</th>
<th>Identification Number</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2-Tetrafluoroethane or Refrigerant gas R 134a</td>
<td>2.2</td>
<td>UN3159</td>
<td>N/A</td>
</tr>
<tr>
<td>Liquefied gas, n.o.s.</td>
<td>2.2</td>
<td>UN3163</td>
<td>N/A</td>
</tr>
<tr>
<td>Refrigerant gases, n.o.s.</td>
<td>2.2</td>
<td>UN1078</td>
<td>N/A</td>
</tr>
<tr>
<td>Dichlorodifluoromethane or Refrigerant gas R 12</td>
<td>2.2</td>
<td>UN1028</td>
<td>N/A</td>
</tr>
<tr>
<td>Consumer commodity, <em>as appropriate</em></td>
<td>9</td>
<td>ID8000</td>
<td>N/A</td>
</tr>
</tbody>
</table>

7. **SAFETY CONTROL MEASURES:**

a. **PACKAGING:** Prescribed packaging is a non-refillable, non-DOT specification inside metal container conforming with Zhejiang Chumboon Iron-Printing & Tin-making Co., Ltd. Drawings D73# Two-piece Can and D66# Two-piece Can on file with the Office of Hazardous Materials Safety (OHMS). The containers must be in conformance with DOT Specification 2Q (§ 178.33a), except as follows:

   § 178.33a-2 Type and size.

   (a) ***

   (b) The capacity of the containers manufactured under this special permit may not exceed 0.34 L (11.5 fluid ounces). The maximum body diameter may not exceed 73 millimeters (2.87 inches).

   § 178.33a-7 Wall thickness.

   (a) The minimum wall thickness of the body must be 0.01 inches.
§ 178.33a-8 Tests.

(a) Two out of each 5000 containers or less, successively produced per day, shall be pressure tested to destruction and must not burst below 377 psig (2.6 MPa). The container tested shall be complete with end assembled.

(b) If any of the test containers in a lot fail the pressure test, that lot must be rejected or ten additional containers may be selected at random and subjected to the test under which the failure occurred. These containers shall be complete with ends assembled. Should any of the ten containers fail, the entire lot must be rejected.

§ 178.33a-9 Marking.

(a) * * *

(1) Containers must be marked “DOT-SP 21461” in lieu of “DOT 2Q”.

(2) * * *

b. OPERATIONAL CONTROLS: Each packaging must be prepared and shipped in accordance with the following:

(1) The filling density may not exceed 87 percent.

(2) Prior to initial shipment of the filled containers, each completed container must be heated until the pressure in the container is equivalent to the equilibrium pressure of the lading at 130 °F. Lading equilibrium pressure may not exceed 218 psig (1.50 MPa) at 130 °F. Liquid content of the lading may not completely fill the container at 130 °F. Acceptable containers must show no evidence of leakage, distortion or other defect.

(3) The container must be packed in a strong outer packaging as prescribed in § 173.301(a)(9).

(4) Each outside packaging must be marked “INSIDE CONTAINERS COMPLY WITH DOT-SP 21461”.

(5) Each completed package may not exceed 30 kg (66 lbs.) gross weight.
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 packaging covered by this special permit, may reoffer it for transportation provided no modification or change is made to the packaging 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 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 packaging is manufactured under this special permit. It must be made available to a DOT representative upon request.

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

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


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: BenM/TG