

September 17, 2020



U.S. Department
of Transportation

East Building, PHH-30
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP 21073

EXPIRATION DATE: 2022-08-31

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Bolllore Logistics Germany Gmbh
Frankfurt Am Main, Germany

US Agent: Shipmate
Sisters, OR

2. PURPOSE AND LIMITATION:

a. This special permit authorizes the transportation in commerce of certain non-DOT specification containers containing hazardous materials for use in specialty cooling applications such as satellites, spacecraft, and military aircraft. 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 hazard and risks associated with transportation in commerce.

c. No party status will be granted to this special permit.

d. This special permit serves as an "approval" under Special Provisions A2 and A88 and 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.

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4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.101 Column (9B) in that the net quantity of lithium batteries per package exceeds 35 kg and that anhydrous ammonia is forbidden on cargo aircraft; §§ 172.300 and 172.400 in that marking and labeling of the packages contained within the spacecraft is not required; § 173.185(a) in that the batteries are not required to be of a type tested in accordance with the UN Manual of Tests and Criteria; and §§ 173.302a(a)(1), 173.304a(a)(2) in that non-DOT specification packaging is authorized, as specified herein.
5. BASIS: This special permit is based on the application of Bolloré Transport & Logistics, dated July 7, 2020, submitted in accordance with § 107.105 and the public proceeding thereon
6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Ammonia, anhydrous	2.2/2.3*	UN1005	N/A
Helium, compressed	2.2	UN1046	N/A
Lithium ion batteries contained in equipment <i>including lithium ion polymer batteries</i>	9	UN3481	N/A

*Division 2.3 for international transportation. Division 2.2 as an alternative when only domestic transportation is involved.

7. SAFETY CONTROL MEASURES:

a. PACKAGING:

(1) Prescribed packagings are non-DOT specification packagings (including heat pipes) which are installed in spacecraft or components of spacecraft and are overpacked in the transport container. The packagings are approved by the Competent Authority of Germany, under Approvals B32/439.32/2020. Details of the packagings, components, and transport container and their Approval are as described in the information on

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file with the Office of Hazardous Materials Special Approvals and Permits Division.

(2) Lithium batteries must be offered for transport at a state-of-charge not exceeding 30%.

(3) Lithium ion batteries must be transported in equipment which is designed to prevent accidental operation during transportation.

(4) Lithium ion batteries contained in equipment must be packaged to minimize the effects of vibration and shock and prevent movement of the equipment within the package.

(5) Not more than one (1) lithium ion battery in equipment is authorized within each package.

b. MARKING: The outer transport container must be plainly and durably marked on two opposite sides in letters at least 2 inches in height on a contrasting background, "DOT-SP 21073".

c. OPERATIONAL CONTROLS:

(1) For transportation, this satellite will be housed in a sealed designed container produced by APCO technologies as described in the application

(2) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that certain packagings within the satellite transport container (heat pipes) are not fitted with pressure relief devices and provide appropriate guidance in case of fire exposure.

(3) Lithium ion battery (Sentinel 6 (BAT-1797)) is comprised of 2 modules; each containing 576 cells (Sony 18650 HCM) in an 8s72p arrangement.

(4) Each lithium ion battery cannot exceed more than 64 kg.

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 modifications or

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changes are made to the package and it is reoffered for transportation in conformance with this special permit and the HMR.

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

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle and cargo only aircraft.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo only aircraft and motor vehicle used to transport packages covered by this special permit. The shipper shall furnish a current 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

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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 Materials 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